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*The*  
**CHEMIST AND DRUGGIST**

Established 1859

28 Essex Street, Strand, London, W.C.2.

Registered as a Newspaper

No. 2713  
VOL. CXVI.

FEBRUARY 6, 1932

Annual Subscription (with  
Diary) 20/- Single Copies 9d.

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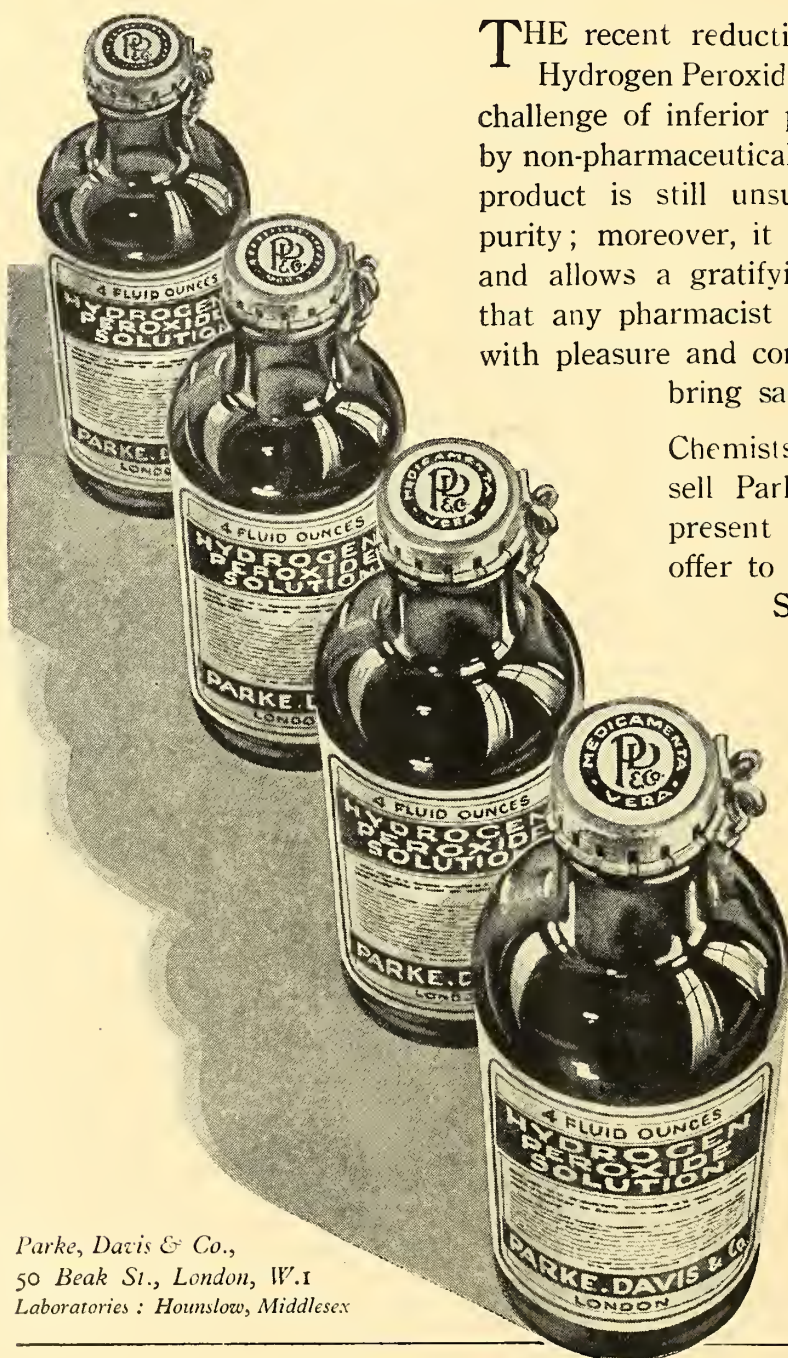
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THE recent reduction in price of Parke-Davis Hydrogen Peroxide is a complete answer to the challenge of inferior peroxides sold at cut prices by non-pharmaceutical traders. The Parke-Davis product is still unsurpassed for stability and purity; moreover, it carries a fixed retail price and allows a gratifying profit. This is a line that any pharmacist can offer to his customers with pleasure and confidence. It never fails to bring satisfaction.

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(LONDON  
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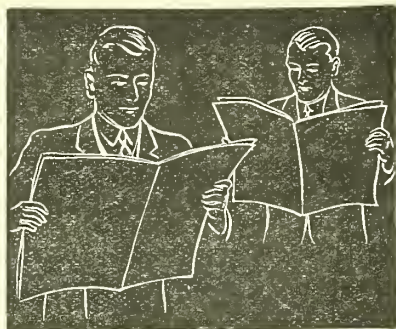


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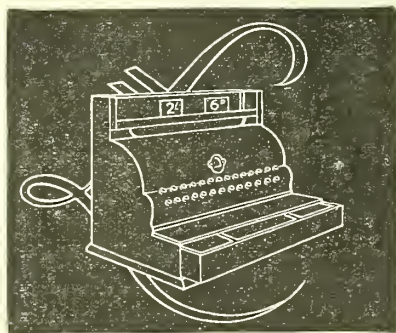
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## Ostelin vitamin D LIQUID

A glycerin suspension of irradiated ergosterol (vitamin D), tasteless, inodorous, accurately standardised, and miscible with water. It has no incompatibilities and may be prescribed alone or in mixtures with other therapeutic agents.

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represents a pure, biologically potent, and accurately standardised preparation of the Glaxo Laboratories.

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Staphylococcus and Streptococcus Mixed Antivirus.  
B. ACNES ANTIVIRUS OINTMENT.

## GLAX-OVO

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## SUNSHINE *Glaxo*

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1/6 and 3/6 per tin.

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Reliable House for all  
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Essential Oils.

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**MANCHESTER**



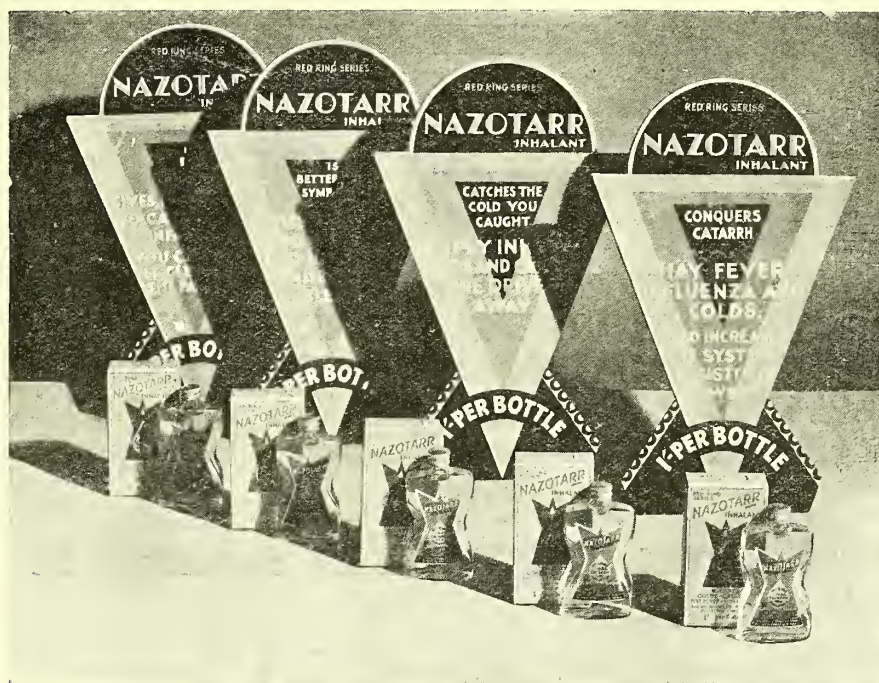
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**Supplied in Bulk or Tins at Best Prices**





1/- per bottle

## HAVE YOU ORDERED NAZOTARR BRAND INHALANT?

It is **HAVING A WONDERFUL SUCCESS** and even so early in the season is repeating at a phenomenal rate.

In the words of  
a customer:

**"Its attractiveness captivates  
the eye and its  
efficacy is indisputable."**

SEND FOR  
PARTICULARS  
**NOW** for

Parcel of  
6 doz. at 8/- per doz.  
less 10% 28 days.  
With free bonus of  
1 doz.

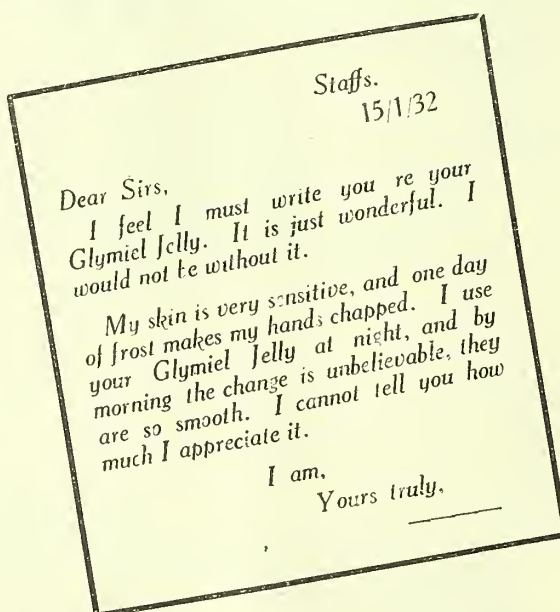
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**CUPAL LTD., Blackburn**

'Grams - "Cupal, Blackburn."  
'Phone - - Blackburn 6073.

# "Glymiel" Jelly

ADVERTISEMENTS are now appearing regularly in WEEKLY AND MONTHLY PERIODICALS, LONDON DAILY PAPERS AND PROVINCIAL EVENING PAPERS, and are impressing over  
**2,000,000**

POTENTIAL CUSTOMERS resulting in letters like this



**OSBORNE, BAUER & CHEESEMAN**

SOLE AGENTS,

**SANGERS LTD.**

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## Does a service like this interest *YOU*?

W. B. Cartwright Ltd. have had great experience, and possess every modern facility for the manufacture of high - grade Toilet Articles at very moderate prices. They are daily producing COMPACTS, LIP STICKS, CREAMS, POWDERS, LOTIONS, SHAMPOOS, PERFUMES, FRICTIONS, TOOTH PASTE, etc., and they will be pleased to receive enquiries, especially from people who have previously imported such articles and are now desirous of securing a British Made article. In addition to manufacturing they are in a position to carry out the packing and merchandising of medicinal proprietary articles in quantity.



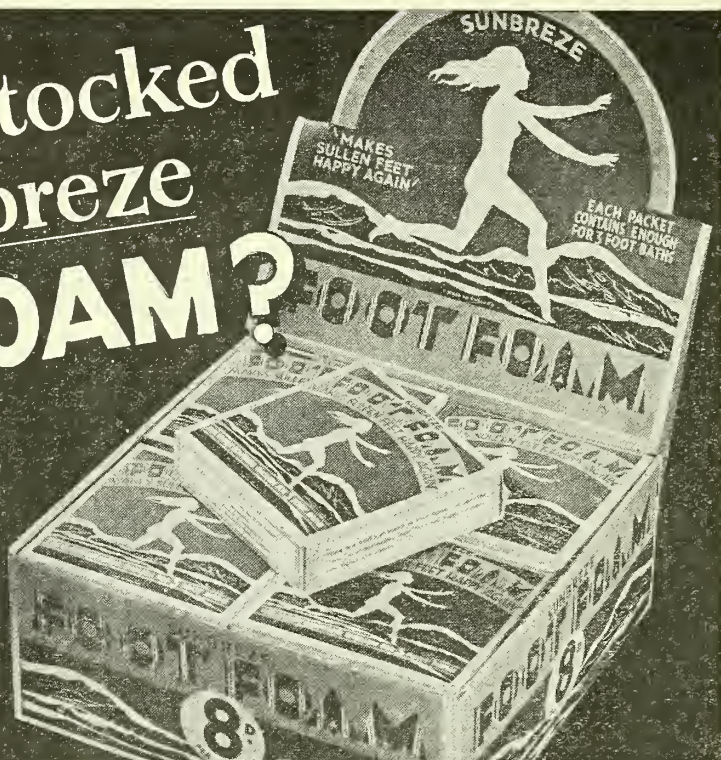
*Address your enquiries for prompt attention to*

**W. B. CARTWRIGHT Ltd.**  
**RAWDON • LEEDS**



Are you stocked  
with Sunbreze  
**FOOT-FOAM?**

Thos. Christy  
will supply  
you.



## NATIONAL ADVERTISING CAMPAIGN

The National Advertising Campaign for Sunbreze Foot Foam is starting this month. Large spaces have been booked in the "Daily Mail," "Daily Mirror," "Daily Sketch," "Sunday Pictorial," "Sunday Graphic," "Daily Herald," "Radio Times" and "Glasgow Bulletin."

Are you ready to meet the demand? If not, fill in the coupon below to-day.

### TRADE TERMS

Price to the Public:  
8d. per packet

Price to the Trade:  
5/4 per dozen

### A FIRST CLASS LINE . . .

Sunbreze Foot Foam actually foams—it produces millions of miniature bubbles which open the pores of the skin and introduce tonic qualities which quickly restore the feet to a natural healthy condition. Removes all corns, hard skin, chilblains, etc., as if by magic.

### Simple £100 Competition to Public

In order to create exceptional interest and larger sales, an easy "Fit-the-Feet" competition will appear in large spaces in all the above papers. Further, a bonus prize of £5 will be given (or divided amongst) the retailer (or retailers) who supply the winning competitors.

### Bonus Parcels

No. 1 (3 dozen and 4 packets free) costs 16/-.  
Selling at 26/8. Profit 10/8.

No. 2 (6 dozen and 1 dozen free) costs 32/-.  
Selling at 56/-. Profit 24/-.

Liberal and attractive supply of show material with each bonus parcel.

Manufactured by Sunbreze Products, Ltd.  
35, Great Tower Street, LONDON,  
E.C.3.

Obtainable from all chemists' wholesalers or  
direct from

Thos. Christy & Co., 4-12, Old Swan Lane, E.C.4

*British Manufacture*

## Thos. Christy & Co.

4-12 OLD SWAN LANE, E.C.4

Please supply  
Bonus Parcel No. 1  
Bonus Parcel No. 2 of  
SUNBREZE FOOT FOAM .....Doz.

Name.....

Address.....



# MAW'S



## For Surgical and Medical Sundries

Maw's are renowned for the supply of standard medical and surgical sundries. The following are examples of new and improved lines.

**"Vel-fin" Inhaler** (Regd. No. 758994). An entirely new design with several distinctive features. Extra wide mouth for easy cleaning and handle for carrying. Earthenware cover and mouthpiece in one piece. One pint size only, each in box. Per dozen, 30/-.

**"Vel-fin" Nasal and Ear Douches** (Regd. No. 760123). Designed and constructed on scientific principles for the easy self-administration of solutions. Watery, sterilisable, economical and reliable.

**"Vel-fin" Ear Douche** (for watery solutions only)

A4 (each in box, with directions).  $\frac{1}{2}$  oz., 3/3; 1 oz., 3/9 each.

**"Vel-fin" Nasal Douche** (for watery solutions only)

A5 (each in box, with directions).  $\frac{1}{2}$  oz., 3/3; 1 oz., 3/9 each.

**"Vel-fin" Feeding Cup.** Good quality white glazed earthenware. Indented sides. Can be held firmly with either hand. Easy to clean. Each in box. Small, 10/- per dozen; Large, 12/- per dozen.

**"Vel-fin" Drop Bottle,** with improved dropper fitted with red moulded I.R. teat and glass tube with safety ball point. Sterilisable. No. 11a (each in card case): 2 drm., 5/6;  $\frac{1}{2}$  oz., 6/-; 1 oz., 6/6 per dozen.

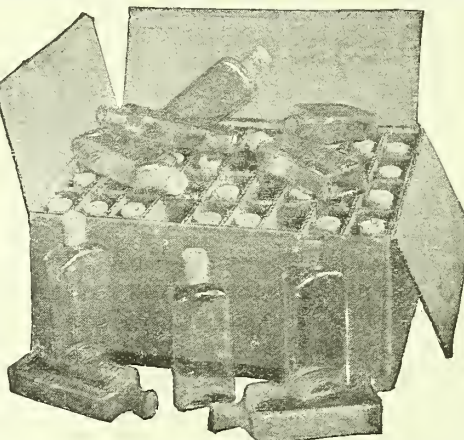
**S. MAW SON & SONS, LTD., Aldersgate St., London, E.C.1**



# CHEMISTS' DISPENSING BOTTLES

WASHED and PAPERED, PACKED as shown, and MACHINE MADE

	In original cartons ex stock Per gross.	Cartons Contain
1 oz. ..	13/-	6 doz.
2 oz. ..	14/6	6 doz.
3 oz. ..	16/6	4 doz.
4 oz. ..	17/6	4 doz.
6 oz. ..	19/-	3 doz.
8 oz. ..	20/-	3 doz.
10 oz. ..	25/-	2 doz.
12 oz. ..	26/-	2 doz.
16 oz. ..	33/-	1 doz.
20 oz. ..	41/-	1 doz.



These Bottles can be had in crate lots of 5 gross assorted sizes, direct from works. Carriage paid at same prices.

## PLAIN OR ACCURATELY GRADUATED

The Boxes used by us for these Medicals are made throughout of double Corrugated Cardboard — Each bottle having a separate division.

## WILLIAM EDWARDS & SONS

*Wholesale and Export Chemists' Sundriesmen*

14-18 NILE STREET, CITY ROAD - LONDON, N.1

BUY

BRITISH



*are better than ever.*

**6 and 8 oz.**

N.H.I. 5<sup>d</sup>. per gr.

Ordinary 8<sup>3d</sup>. „

Fine 1/1<sup>1</sup>/<sub>2</sub> „

Finest 1/8 „

10 gross carriage paid.  
20 gross - - less 5%.

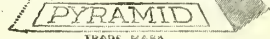
Less 5% cash with order.

Write for full Price List and Size Gauge

**N. W. Mitchell & Snow, Ltd.**

"The Cork Firm."

Limehouse, London, E. 14.



## SCIENTIFIC GLASSWARE AND CHEMICAL APPARATUS

FOR ACADEMIC AND  
COMMERCIAL USES

## FILTRATION APPARATUS OF ALL KINDS

## SINTERED GLASS MEMBRANE

## AND ULTRA FILTERS

ALL TYPES OF STOPPERED BOTTLES

## L. WENBORN

NELSON PLACE, CITY RD., LONDON, N.1

Telephone : CLERKENWELL 3712      Telegrams : "WENBOTTLE, LONDON"



# Have YOU seen this Yet?



## OUR STOMACH DIGESTIVE POWDER

*PREPARED according to the original MACLEAN formula*

**FOR INDIGESTION ACIDITY HEARTBURN DYSPEPSIA  
FLATULENCE GASTRITIS & OTHER STOMACH AILMENTS**

*In boxes of 3½ ozs. net. with wide mouth  
Retail 1/3 each. Wholesale 9/- doz. 6 doz. 8/6.*

*Ask us for leaflets as above in colour.*

**EVANS SONS LESCHER & WEBB LIMITED**

Liverpool London and Dublin



*The Survival  
of the Brightest*

After many years, the old symbolic Lights, once seen in every chemist's shop, have almost disappeared. Modern methods now produce bright, glareless window and interior illumination, attracting thousands of prospective buyers—the kind of illumination obtainable with COSMOS LAMPS.

**METROPOLITAN-VICKERS  
ELECTRICAL CO., LTD.  
TRAFFORD PARK  
MANCHESTER**

**COSMOS  
LAMPS**



**DOES YOUR  
PRINTING  
JUSTIFY COST**

**WE ARE SHORTLY  
INTRODUCING  
REAL ECONOMY  
IN PRINTING**

**LOOK FOR  
THIS SPACE  
NEXT WEEK**

**WHEN YOU VISIT LONDON**

*stay at the*

**CORA HOTEL**

Upper Woburn Pl., W.C.1

Accommodation for 240 Guests  
Near Euston, St. Pancras and Kings X.

**CENTRAL  
CONVENIENT  
COMFORTABLE**

H. and C. Running Water Basins in all  
rooms. Bedlights. Modern conveniences  
ROOM and TABLE d'HOTE  
BREAKFAST 8/6

BOARD TERMS, applicable to a stay of 3 days or  
more: Partial 11/- per day. Full Board 13/-.

**BATTLE'S  
VERMIN  
KILLER**

Of all Patent Medicine  
Houses at 3/-, 5/-  
and 9/- per dozen.

In packets at 5d.,  
9d. and 1/3 each.  
(P.A.T.A.)

The *sure* destructive agent which may be  
confidently recommended by Chemists for  
quick clearance of rats and mice.  
(Users' testimonials on request.)

Prepared only by  
**J. C. M. BATTLE, Ph.C., LINCOLN**



# LEGISLATION AND PHARMACY

Which is better ? To cavil and protest against legislation or to extract the utmost benefit from the advantages which past legislative action has conferred upon you ? The legislature places you in the privileged position of being the exclusive vendors of remedies "known, admitted and approved." Why not use this unique standing, to transform all those products into your own proprietary lines by adopting a scientific and comprehensive form of distinctive own-name presentation ?

**KNOWN,  
ADMITTED  
AND  
APPROVED**

**EVERY PHARMACEUTICAL PREPARATION  
CAN BE THE—**

**"CHEMISTS' OWN"  
PROPRIETARY**

by instituting the

**RESERVABLE  
SERIES**

**of Packed Preparations, Tablets,  
Pills, and other Specialities**

The famous method by which the Chemist selects his own label-design with name, and reserves it wholly for himself in his neighbourhood. Nearly 150 Pharmaceuticals can be incorporated in the Chemist's scheme and labelled with his chosen own-name design. A profusion of display material is at the service of each of the Reservable Series, including cut-out frame cards, and over 100 inserts by which topical and seasonal items can be quickly featured. Each series has for its support a beautifully-executed window-pelmet or vallance: under no circumstances could a similar pelmet be used by any other Chemist inside a radius of two miles.

**STAR — PURPLE KEY — ANCHOR — MORTAR**

*SPECIMEN PACK SENT TO ANY TRADING CHEMIST*

**AYRTON, SAUNDERS & CO., LTD.**

34 Hanover Street - - - - LIVERPOOL, ENG.

# How to Sell 10 times

**THIS CARD WILL BRING IN  
HUNDREDS OF NEW CUSTOMERS**

With every shilling box of Poudre Tokalon you sell a 6d. Tube of Vanishing Skinfood for 1d. only, i.e., 1/1 the two.

The two together will cost you 10/- per dozen less Usual Display Allowance (5% on £1 order; 10% on £2 order).

**MINIMUM ORDER THREE DOZ. CARRIAGE PAID**

**SPECIAL BONUS ON CRÈME TOKALON**

If at the same time you order:—

Crème Tokalon Vanishing Skinfood - 1/-

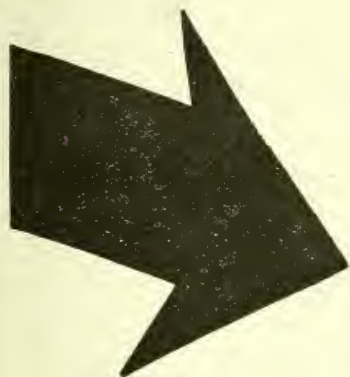
Crème Tokalon Biocel Skinfood - 1/3

We will send **TWO UNITS FREE PER DOZEN** on any quantity. Minimum Order three dozen (can be assorted).

**OFFER CLOSES FEB. 28<sup>TH</sup>  
MAIL ORDER FORM TO-DAY!**



# more Face Powder



Do Not Delay  
— The Dealer  
Who First  
Displays This  
Offer  
**PROFITS  
MOST**



## ORDER FORM

TOKALON LTD., Chase Road, LONDON, N.W.10.

PLEASE SEND:—

.....Doz. 1/1 combined Packages

Minimum order 3 doz. (comprising 1/- Poudre Tokalon, 6d. Tube Vanishing Skinfood),  
@ 10/- per dozen.

(Unless otherwise stated Half Natural and Half Rachel shades will be sent.)

.....Doz. 1/- Vanishing Skinfood with two Free to Dozen.

.....Doz. 1/3 Biocel Skinfood with two Free to Dozen.

Minimum order 3 doz. (can be assorted).

If goods are to be invoiced  
through Wholesaler give  
name and address .....

Name.....

Address.....

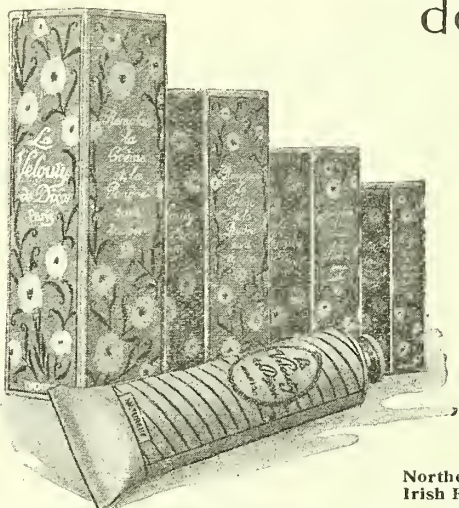
.....(C. & D.)

Date.....1932

The original combined Cream and Powder

la **VELOUTY**

de **DIXOR** Paris



*The advertised line that you are asked for.*

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :-	No. 1. Handbag tube	3/- doz.	Retail	-/4½
	No. 2. Small tube	4/-	"	-/6
	No. 3. Medium tube	7/-	"	1/-
	No. 4. Large tube	14/-	"	2/-
	No. 5. Super tube	22/-	"	3/-
	Pots	21/-	"	2/9

Made in four shades:

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the

Sole British Agents:

**DEBACQ & HARROP,**

68 Newman Street, Oxford Street, London, W.1.

Sole Distributors for

Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST  
Irish Free State: MAY, ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

**BUTYWAVE SHAMPOO**

**6<sup>dp</sup> EACH**

**YOU REALLY MUST TRY THIS - IT'S WONDERFUL**

**Yes—advertised  
month in and  
month out—  
and it shows you  
83% PROFIT**

THE BUTYWAVE CO. (Dept. O.27), 10 Tachbrook St., London, S.W.1

**“ODENTIC”  
PLATE  
BRUSH**

Regd. No. 417637.

From all Wholesalers.  
Packed in ½-dozen Display Boxes.  
Manufacturers:

**W. R. Speer & Son** (EST. 100 YEARS)  
215 DALSTON LANE - - LONDON, E.8

**Pay more for  
“MIRROR”  
Blades -**

**The New Watts  
“Mirror” Blades**

These wonderful Blades with their Rustless Reinforced Edges of Stainless Steel treated by a secret process are worth the extra cost. They are keener and give more and better shaves than any others on the market. The Edges are absolutely rustless in any climate.

**Watts Mirror Blades**  
Packed in Patent Spring Lid Nickel-plated Containers of  
**10 for 3/4**  
Also Packed in cartons of  
**5 for 1/8**

**they're  
worth it**

**JOHN WATTS (Sheffield and London) Limited**  
Lambert Works, SHEFFIELD. Established over 150 years  
London: 18 Soho Square, W.1



# New 'non-stop' bonus terms

## STARTING MARCH 1.

13 TO THE  
DOZEN AND  
QUANTITY  
PRICES

New non-stop bonus terms start March 1st and will continue throughout the year.

Briefly, these non-stop terms are thirteen tins to the dozen on orders of 3 dozen, 6 dozen, 1 gross and 2 gross, whether original orders or repeats.

The following quantity prices are as usual applicable:—

- 3 dozen with 3 free tins @ 8/3 per dozen.
- 6    "    "    6    "    "    @ 8/2    "    "
- 1 gross    "    12    "    "    @ 8/-    "    "
- 2    "    "    24    "    "    @ 7/6    "    "

The only condition attaching to this bonus is that you undertake to make, with the display material provided, a fortnight's window or counter display of Johnson's Baby Powder every time you take advantage of the bonus.

*This cancels the window display fees previously allowed on 1 and 2 gross orders.*

**Johnson's** **BABY and  
TOILET  
POWDER**

JOHNSON & JOHNSON (Gt. Britain) LIMITED, SLOUGH, BUCKS.

# You'll sell even MORE Anzora now

*With the NEW  
Screw Top!*



The new Anzora cap will mean new Anzora customers. A twist and the cap is off, a turn and it is securely on again. So simple and much more satisfactory than a cork. See that your stock can meet the increased demand and fill up your shelves with this 50% profit Hair-fixative.

## TRADE TERMS

Small size, retailing at  
1/- each 8/- a dozen

Medium size, retailing at  
1/6 each 12/- a dozen

Large size, retailing at  
2/6 each 20/- a dozen

**ANZORA**  
MASTERS THE HAIR

ANZORA  
PERFUMERY  
CO., LTD.  
London, N.W.6



**IT'S BRITISH  
THROUGH & THROUGH**  
British, and the best

Protect your trade by protecting  
the customer. Sell Nuctone ex-  
clusively for recolouring of hair.

*Keep British money in the Country*

**Nuctone**  
SAFE FOR GREY HAIR

**THE LEADING  
ALL-BRITISH  
POWDER BOXES**

A large variety of exquisitely  
finished models—Nickel, Gilt,  
Silver, Enamel, Lacquer

*From all Wholesalers.*

**Blackmore, Howard & Metherell,  
LIMITED**

53 Hatton Garden, London, E.C.1

**VOGUE  
VANITIES**

## JACKEL'S

## OILAFIX

Here is a new composition—quite apart from  
Jackel's Original Hair Cream, and not a com-  
petitor—specially prepared to meet an actual  
demand for an oily preparation.

Already Oilafix has made a hit and we recommend  
you to stock it, together with the Original Jackel's  
Hair Cream.

### OILAFIX Trade Terms:

12/- per doz., retailing at 1/6 per bott.

20/- per doz., retailing at 2/6 per bott.

### JACKEL'S HAIR CREAM

11/6 per doz., retailing at 1/6 per bott.

18/- per doz., retailing at 2/6 per bott.

**JACKEL et CIE (of Paris) Ltd.**  
GLASGOW, C.2

London Agents: **THE PHIL-SANO Co., Ltd.,** Craven  
House, Kingsway, W.C.2



## TAYLOR'S CIMOLITE TOILET POWDER

THE PERFECT POWDER FOR NURSERY USE



A perfectly bland and non-irritating Powder. Invaluable in  
all cases of Eruptions, Chafing, Roughness of the Skin, etc.  
Recommended by eminent skin doctors and recognised as the  
leading Toilet Powder for over 70 years by the nursing profession.  
Used in the Royal Households.

In deference to the many requests received from users of  
"CIMOLITE," a sprinkler tin to retail at 1/1½ is now available.  
This new packing is in addition to the familiar 1/1½ packet  
which is still on the market.

When ordering please specify TINS or PACKETS.

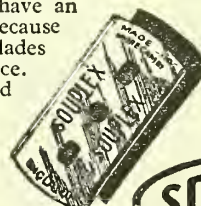
"CIMOLITE," in all sizes, also CIMOLITE SOAP AND CREAM, is stocked by  
all Wholesale Chemists and Druggists.

TERMS and ILLUSTRATED PRICE LISTS, also ATTRACTIVE SHOWCARDS,  
Counter Bills and other selling literature, obtainable from

**JOHN TAYLOR, 30 Baker Street, Portman Square,  
LONDON, W.1.**

## BIGGER PROFITS

Souplex Blades have an  
enormous sale because  
they are quality blades  
at a popular price.  
Moreover they yield  
you an extraor-  
dinarily big profit  
—as much as 92%



**WHEN  
YOU  
SELL**

**6 for 1/-**

Order through your usual wholesaler  
or direct from:

**SOUPLEX LTD., Morecambe**





THE HOUSE FOR

# DRUGGISTS' SUNDRIES

SURGICAL SUNDRIES  
HOT WATER BOTTLES  
B.P.C. DRESSINGS  
TOILET BRUSHWARE

TRADE



MARK

SPECIAL ALL GLASS  
SPRAYS. R.J.R. SERIES  
LETTERED DELF JARS  
NOVOLA DELFETTE JARS  
ELASTIC HOSE

**BRITTON, MALCOLM & WAYMARK, LTD.**  
38 SOUTHWARK BRIDGE ROAD,  
LONDON, S.E.1

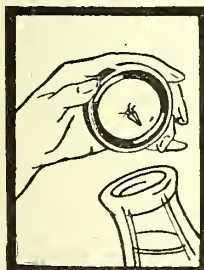
Telephone:  
Waterloo  
1442 (2 lines)

*Near Southwark Bridge, South Side of River.*

Telegrams:  
"Clinbritic,"  
Boroh, London."

## "PRESTOP"

**Milk COVER & Cardboard disc REMOVER**



**6d.**

FITS ALL SIZES.

Manufacturers:  
**T. WEBSTER  
& CO., LTD.**

Diamine House,  
Middle Lane,  
Hornsey, London, N.8



READ  
THE  
**MODERN  
SHOP**  
EVERY  
MONTH

ISSUED BY  
**E. POLLARD  
& CO. LTD.**

CIRCULATION NOW EXCEEDS 33,000

*Write for a  
Specimen Copy*

SENT POST  
FREE TO PRINCIPALS  
AND EXECUTIVES.

WRITE - CIRCULATION MANAGER,  
"MODERN SHOP", 159, ST. JOHN ST.,  
LONDON, E.C.1.

YOUR CARD OR LETTER HEADING WILL DO

## NURSE HARVEY'S MIXTURE

A safe, simple and reliable remedy for Children's Ailments is advertised so extensively in the daily and weekly Press as to bring mothers to the retailer without effort on his part.

The selling has been done before the mother reaches the chemist, and, having supplied her, it is only common sense to claim she will buy other family necessities from him. Moreover, the continuous demand for it produces a quick turnover.

For Direct Terms apply to—

**OSCAR SCRUTON & CO., YORK**

## THE CHEMIST & DRUGGIST SUPPLEMENT

is an infallible help when you want  
to buy or sell a business, secure an  
agency, an assistant or a situation, or  
**SELL SURPLUS STOCKS.**

*The TARIFF is printed on the front cover  
of the COLOURED SUPPLEMENT.*

Address all inquiries to—

The Publisher: **THE CHEMIST AND DRUGGIST,**  
28 ESSEX STREET, LONDON, W.C.2.

**We are giving  
the Chemist  
publicity!**

In March we are starting a scheme to advertise the Chemist and to increase the sale of "Sol-Vo" Toilet Paper. Wherever Chemists have stocked and displayed "Sol-Vo" they have made ready sales, because it sells on quality, and quantity for the price.

Keep a look out for the particulars of our special bonus offer available in March, and be ready to meet the demand.

**FORD, SHAPLAND & CO. Ltd.**

*Specialists in Chemists' Printing*  
90 Years,

GT. TURNSTILE,  
HIGH HOLBORN,  
W.C.1

**BONUS TERMS**

**IN MARCH.**

**SOLVO**

**WILSON**

*Surgical*  
*Industrial &*  
*Household*

*"The temper of  
Finest Steel"*  
**GLOVES**

SUPPLIED TO THE  
TRADE EXCLUSIVELY



*Rd Blaker*

11, CANUTE RD.  
SOUTHAMPTON



**ENGLAND'S LAST WORD**

IN SAFETY RAZOR BLADES  
THE GREAT "TOM THUMB"

(ACTUAL SIZE OF BLADE)

Retails  
at

**1d.**

each



Retails  
at

**1d.**

each

MADE BY

Brooks, Haywood & Co. Ltd., Shiloh Works, Sheffield

**PARAFFINUM LIQUIDUM B. P.**

**EXTRA HIGH VISCOSITY** HOLROYD'S OIL & CERESINE CO., LTD.  
3 New London St., London, E.C.3. Phone - 3395 Royal. Wires: Errikolrou Fen.

**WINNER STOCKING DYES**

Make OLD, FADED or SPLASHED STOCKINGS of any material like NEW again.

Smartly packed in Waxed Tubes and Cartons. Supplied in 12 Latest Stocking Colours:—Copper Beech, Suntan, Nude, New Brown, Beige, Bulrush, Cocoa, Florence Mills, Rose Glow, Smoke Grey, Dago, Gunmetal. Price 2/- per dozen. Retail 3d. per Tube. Very attractive Display Case free with one gross. Order to-day from:—

**WHITAKER & CO. (Kendal) LTD.**



**WINNER HOME DYES**

THE FINEST OBTAINABLE for WOOL, SILK, COTTON, etc.

Smartly packed in Waxed Tubes and Cartons. Supplied in 24 Specially Concentrated Fast Colours:—Black, Navy Blue, Blue, Saxe Blue, Royal Blue, Fawn, Brown, Dark Brown, Nigger Brown, Purple, Lavender, Mauve, Green, Dark Green, Emerald, Red, Pink, Cherry, Old Rose, Grey, Cream, Yellow, Orange, Brick. Price 2/- per dozen. Retail 3d. per Tube. Very attractive Display Case free with one gross.

Dye Specialists for Chemists, KENDAL, ENG.



# "SURCO"

RELIABLE

## ELASTIC HOSIERY

SEAMED & SEAMLESS

For special garments to  
measure we maintain a 24  
hour service.

:: BODY BELTS ::  
TRUSSES :: SUNDRIES

*Write for Catalogue.*

**SURGICAL HOSIERY CO., LTD.**

Russell Street :: NOTTINGHAM

Telephone No. 75903 Telegrams: SURGICAL, NOTTM.

**Best sellers**

The public is asking  
for **ZEAL**  
**CLINICAL**  
**THERMOMETERS**  
because they are:-  
**GUARANTEED TO**  
**STAY ACCURATE**  
**CONSISTENTLY**  
**ADVERTISED**

Made by  
**ZEAL**

*-the name the  
public knows.*

**G. H. ZEAL, LTD.,**  
75 & 77, St. John St., London, E.C.1.



Awarded Certificate by  
The Institute of Hygiene  
for Purity—Quality—Merit

# LOCARNO

MEDICATED  
TOILET ROLL

**Costs 3d.**



**BRITISH  
MADE**

**Sells 6d.**

*Sales  
restricted  
to Chemists*

*You are sure of  
repeat orders  
by selling the  
"LOCARNO"*

**Contains 650 sheets of pure  
white Sulphite Paper.**  
**Free delivery. Packed in cartons.**  
**Free Sample Roll on application**  
**Each Roll 12 oz.**

Sole Manufacturers:

**J. RUTHERFORD & Co. L<sup>td</sup>**

VICTORIA PAPER MILLS  
VICTORIA RD., HOLLOWAY, LONDON, N.7

CONTRACTORS TO H.M. GOVERNMENT



# KEST BRAND

COMPOUND

## A NATIONAL ADVERTISING CAMPAIGN

is about to be launched which will include the following important publications of huge circulation—

**DAILY MAIL**  
**DAILY EXPRESS** **DAILY HERALD**  
**NEWS CHRONICLE** **DAILY MIRROR**  
**SOUTH WALES DAILY POST**

thus ensuring that the "Kest" announcements are seen by no less than

**7,299,370 READERS**

### — TRADE TERMS —

6d. size, in cartons 4/- per doz. bottles  
 1/- size, in cartons 8/- per doz. bottles  
 2/6 size, in cartons 20/- per doz. bottles  
 1 gross 6d. size or equivalent, less 10%  
 3 gross " " " " " 12½%  
 5 gross " " " " " 15%

Carriage paid 6 dozen.

### SPECIAL INTRODUCTORY OFFER

(Available till March 1st, 1932)

To Messrs. FASSETT & JOHNSON, Ltd.  
 56 Clerkenwell Road, E.C.1

Please supply  
 ...doz. 6d. size "Kest" } 6 doz. at  
 ...doz. 1/- size "Kest" } the rate  
 ...doz. 2/6 size "Kest" } of 4s. per  
 ...doz. 2/6 size "Kest" } doz. bots.  
 less 12½%

Signed .....

Address .....

# EPSOM SALTS TABLETS

A unique line! Quite tasteless. "Kest" is proving immensely popular. Packed in compelling Counter Display Cases of 1 dozen bottles, and in Cartons retailing at 6d. and 1/- each, and 2/6 size packed in ¼ dozen Display Cases.

No proprietary right is claimed in the manufacturing method or the formula.



2153

## REVELATION IN STORAGE OF EGGS WONDERFULLY SIMPLE AND EFFICIENT

### OTEG EGG PRESERVATIVE

(Seals every pore)

STORE EGGS DRY IN BOX AT HOME FOR TEN MONTHS, FOR BOILING & ALL PURPOSES



Consider Oteg before stocking others. Users demand it, it's so efficient & convenient. Sealed all the time, in store, transit, or shipment. No trouble, no preparation, no pails of chemicals. Quart of Oteg seals over 1,000 eggs. DIP eggs into thin liquid, with wire tongs provided. DRY for half an hour, STORE in box.

Sealed tins with dipper for 250 eggs 2/8; 500 4/9; 1,000 7/9  
 Cartons containing sealed tin, wire tongs, booklet.

GENEROUS TRADE TERMS—EASY SALES  
 GOOD PROFIT—FORCEFUL ADVERTISING

Stocks sealed and Good For Two Seasons  
 ATTRACTIVE ADVERTISING MATTER

**SOZOL (1924) LIMITED**  
 20 COPTHALL AVENUE, LONDON, E.C.2

— Thousands of tins sold last season —  
 HUNDREDS OF THOUSANDS FOR 1932

# BRITISH EGGS!

Are you taking full advantage of the extensive campaign now in progress?

RECOMMEND

## "WENBERY" WATERGLASS

(THE CHEMISTS' PACK)

to your customers for their surplus supplies.

## "NEWBERYS"

(F. NEWBERY & SONS LTD)

CHARTERHOUSE SQUARE

TREDEGAR HOUSE LONDON, E.C.1  
 CARDIFF

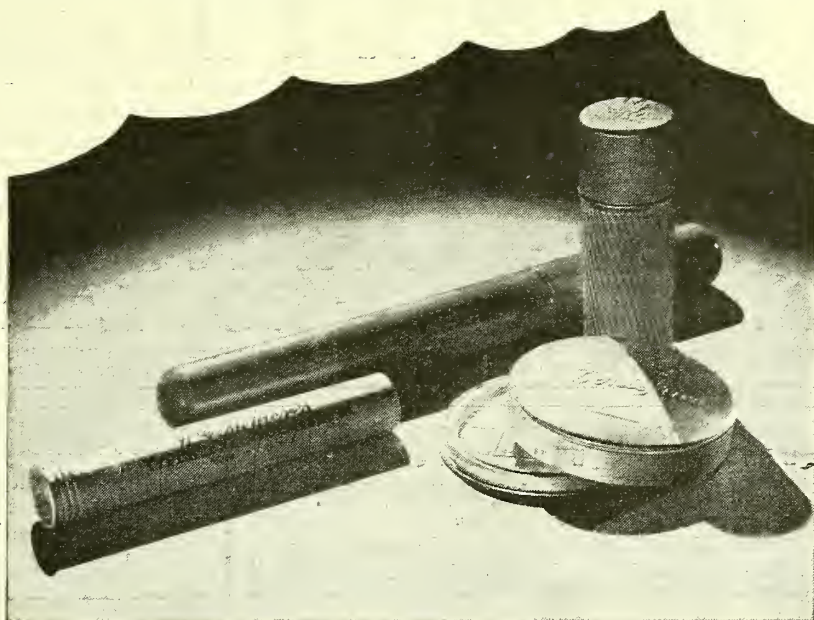
COLLEGE LANE  
 LIVERPOOL



C.&amp;D. 6.2.32

For that vital point—the point of the sale—aluminium boxes have many advantages. Lustrous gleam compels attention. The lightness of the container enhances approval, whilst the hygienic safety and sturdiness of the metal complete its appeal. Cost is negligible. A variety of finishes is available—polished, plain or matt. Excellent effects are gained by colour printing or litho relief stamping (plain or in colour) and enamelling.

J. D. Memo. No. 24 sets forth more fully the advantages of aluminium packing.



*Aluminium boxes by H. G. Sanders & Son, Ltd., Southall.*

**ALUMINIUM**  
**IDA**  
 THE BRITISH ALUMINIUM CO LTD  
 ALUMINIUM PRODUCERS, ADELAIDE HOUSE,  
 KING WILLIAM STREET, LONDON: E.C.4.  
 Telephone—  
 ADELPHI HOUSE 5541 & 5542 (8 LINES)  
 Telegrams—  
 "CRYOLITE, BILGATE, LONDON."

**For Up to Date**  
**Showcards**  
**Cut-outs**  
**3-Fold Screens**  
**Colour Printing**

**THOMAS TOURLE & Co.,**  
**149 STRAND, LONDON.W.C2**  
**Designs & Estimates FREE**

**Phone Temple Bar 3649**

**Paraffinum**  
**Liquidum**

**B.P.**  
**ALL GRADES**  
**SAMPLES & PRICES**

On application to —

**STERNS LTD**

**16 Finsbury Square London E.C2**

**WHOLESALE ONLY**

# PRECIPITATED CHALK

**LIGHTEST—MEDIUM—DENSE.**  
And All Other Grades To Suit Every Purpose.  
**CHEMICALS FOR ALL INDUSTRIES.**

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**A. LEVERMORE & CO. LTD.** ABC Codes,  
110 CANNON STREET, LONDON, E.C.4. 5th & 6th Editions.

# PURE ORANGE WINE

## A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)  
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3

## FRED<sup>K</sup>. FINK & CO.

10 & 11 MINCEING LANE, LONDON, E.C.3.

TEL: ROYAL 5094.

GUMS, ARABIC and TRAGACANTH as Imported or  
Finely Powdered. :: SHELLACS ALL GRADES.

## "VITAMIN TESTED YEAST"

*Yeast specially prepared for medicinal purposes.*

GUARANTEED ABSOLUTELY PURE.  
**MIDGLEY & PARKINSON, LTD.,**  
WARREN WORKS, PUDSEY, LEEDS.

ALL CHEMISTS  
SHOULD STOCK

## ABDINE

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# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
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## News of the Week

### Society of Apothecaries of London

At the dispensing assistants' examination, held on January 25, 27 and 28, the following candidates were granted the certificate of qualification to act as an assistant to an apothecary in compounding and dispensing medicines:—

Almond, A. E.	Gough, M. M.	Nichols, A.
Atkinson, E. M.	Hall, G. W.	Nosworthy, M. A.
Bartrum, M.	Harris, G. M.	Pearson, D.
Berry, M.	Honychurch, E. F.	Platts, A. H.
Bowen, E. M.	Jones, A. L.	Selby, S.
Byrne, R.	Kew, H. M.	Spiller, M. U.
Davis, E. M.	King, E. G.	Sprake, M.
Deronet, E. R.	Langton, M. P.	Summerson, E. C.
Dudeney, J. M.	Lewis, E. E. M.	Tennant, E. M.
Dunne, M.	Lockett, M. M.	Thomson, J. H.
Eban, R. H. M.	Mackman, M.	Wadsworth, K. L.
Fisher, M. L. E.	Marcuson, S. G.	Williams, C. M.
Garfitt, E. R.	Murthyr, E. C.	

### Inquests

While cycling home from his shop recently, Mr. D. U. Still, chemist and druggist, Woolwich, was knocked down by a motor-car, and received injuries which proved fatal. At the inquest on January 29 the jury returned a verdict of "Accidental death," and added that there was negligence on the part of the driver of the car. It was stated that Mr. Still had cycled for about sixty years from his residence at Sidcup to his business.

### Birmingham

Despite the prevalence of influenza locally, the volume of trade to the chemist is not above normal for this time of year.

Birmingham City Council has decided to confer the freedom of the city on Mr. Barrow Cadbury, chairman of Cadbury Brothers, Ltd., and the Rt. Hon. Neville Chamberlain, Chancellor of the Exchequer.

### Liverpool

About eighty students of the Liverpool School of Pharmacy took part in the recent annual university procession and fancy dress carnival in aid of the local hospital.

At Liverpool Assizes, on January 29, William Craddock (39), described as a druggist, was sentenced to five years' penal servitude for procuring or attempting to procure abortion. It was stated that one of the bottles of "medicine" mentioned in the case was sold for 15s., but could be supplied at a profit for 1s. 3d.

### Miscellaneous

POISON-LICENCE GRANTED.—Warwick Town Council have granted a licence for the sale of horticultural poisons to A. B. Wylie, Ltd, ironmongers, Market Place.

SPORTING EVENTS.—The following matches were played by the Ipswich Chemists' Hockey Club, on January 27:—Men's team v. Felixstowe R.A.F., lost 1-4; ladies' team v. Aldeburgh, drew 1-1.

IDEAL HOME EXHIBITION.—The Ideal Home Exhibition, organised, as in previous years, by the "Daily Mail," will be held at Olympia, London, W.14, on April 5-13 inclusive. Full particulars may be obtained from the Press Manager of the Exhibition, Carmelite House, E.C.4.

RIVAL STUDENTS' DEMONSTRATION.—While the Council of the Pharmaceutical Society of Great Britain was in session on February 3, students from the Society's School were engaged in a "battle" in Bloomsbury Square, for nearly an hour, with students from the London College of Pharmacy. The principal weapons were eggs.

**INDUSTRIAL DESIGNS COMPETITION.**—The ninth annual competition of industrial designs, under the auspices of the Royal Society of Arts, will take place at the Imperial College of Science and Technology, South Kensington, London, S.W.7, in June. Particulars can be obtained from the Secretary, Royal Society of Arts, John Street, Adelphi, London, W.C.2.

**IN THE COURTS.**—In Westminster County Court, on January 25, Mr. C. G. Froom, Kingly Street, W.I., sued Mr. R. E. Parker, chemist and druggist, Coventry, for the sum of £19 13s. alleged to be due for goods supplied. Failure to supply material for a competition scheme was shown in evidence by the defendant, and eventually the plaintiff was non-suited on one part of his account, receiving judgment for £10 2s.—At Sheffield Police Court, recently, George Shepherd, Loxley New Road, was fined £3, with costs, for having sold a poison not duly labelled, and being an unlicensed vendor.

**A CHAMBER OF TRADE REFERS TO PRICE MAINTENANCE.**—Price maintenance forms the subject of a reference in the annual report of the Blackburn Chamber of Trade, just issued. "There are instances," it is stated, "where trade cutting is extremely difficult, through the operation of a proprietary trades' protection organisation; for manufacturers who do not insist on the maintenance of ticket prices soon find opposition from quarters which they cannot afford to ignore. The time is quickly approaching when something will have to be done on these lines to safeguard the livelihood of thousands of legitimate shopkeepers. Meanwhile, we suggest every trader should, in his private life, support only those fellow shopkeepers who follow the policy of supporting only fair-price shops."

## Scottish Notes

### Brevities

Mr. D. Philp, representative of T. & H. Smith, Ltd., who met with an accident recently, is reported to be progressing favourably.

An explosion occurred recently at the mills of the North British Rubber Co., Ltd., Edinburgh, when vulcanite combs were being made.

The shop at 302 Morningside Road, Edinburgh, occupied by Mr. James Finlay, chemist and druggist, was broken into recently; a sum of money was stolen.

A gold badge was presented to Ex-Deacon Alexander Spence, chemist and druggist, Edinburgh, by the Linlithgow Ancient Fraternity of Dyers, recently, and Mrs. Spence was the recipient of a handsome diamond ring, as a mark of appreciation of past services.

### Dundee

Pharmacy students at the Technical College gave their assistance to the Dundee students' charities campaign recently; over £2,000 was raised.

The death is announced of Mr. John Forsyth, dental surgeon, Dundee, son of the late Mr. John Forsyth, chemist and druggist, notice of whose demise appeared in our issue of January 30.

### Glasgow

An address on "The History of Flowering Plants" was delivered recently by Professor John Walton to the members of the Royal Philosophical Society of Glasgow.

The premises of Munro, McLaren & Sutherland, druggists' sundriesmen, Cadogan Street, Glasgow, were broken into recently; one man was caught, but subsequently escaped.

The nineteenth annual general meeting of the members of the Chemists' Friendly Society was held on January 28, Mr. John Weir (president) in the chair. The annual accounts and directors' report were submitted and adopted; these showed the Society to be in a highly prosperous condition. Office-bearers were re-elected.

## Irish Notes

### "Dangerous" Drugs in Northern Ireland

The latest annual report of the Ministry of Home Affairs in Northern Ireland, just issued, contains a section devoted to "dangerous" drugs, including the following:—

Import and export figures for Northern Ireland will be supplied by the Imperial authorities, who, under the provisions of the Government of Ireland Act, 1920, still continue to control imports and exports. All supplies to wholesale dealers in Northern Ireland continue to be supplied exclusively from firms in Great Britain. The following table shows the approximate quantity of each drug purchased and subsequently sold in 1930, together with the amount of pharmaceutical preparations not coming within the Act:—

Drug	Purchases	Sales	Used in preparations not coming within the Act
	Oz.	Oz.	Oz.
Morphine .. ..	383½	372½	25½
Cocaine .. ..	36½	30½	½
Diamorphine ..	12½	13½	—
Medicinal opium ..	362	77	275½
Indian hemp (extract)	36	34	—

A table shows particulars of certificates issued to farmers and stock-owners to be in possession of tincture of opium. There were 414 in force on December 31, 1930, eighty-nine having been issued during the year and twenty-three not being renewed.

### Kelp and Irish Moss

The Free State Government has made great progress in the work of saving the kelp industry in the West of Ireland. Over 2,000 tons of kelp has been bought from the people of the West during the last season. Although the average price is about £7 per ton, this has been much exceeded in such districts as Tory Island, where the best quality grows; as much as £14 per ton has been paid there. By the new system of burning the weed much that formerly went to waste has been saved for the market. One family alone in Connemara earned £152 for the season, while at least £14,000 has been distributed among the coast dwellers in the West during last year. Irish moss has now been made available with the necessary information as to its preparation as an item of diet. This want has been supplied by the Gaeltacht Industries Depot, Beggars' Bush, Dublin. The weed must be carefully graded, cured and washed in sea water, and dried before packing for sale. All these operations give good employment in the West, where the value of carrageen to the gatherers has been considerably advanced—in some places from £8, or less, per ton to £20 per ton.

### Brevities

Councillor O'Farrell, Ph.C., Dublin, has been selected as one of the Government candidates for the North Dublin division in the forthcoming general election.

Councillor Thomas F. Cole, Ph.C., has been appointed chairman of the Maternity and Child Welfare Committee of Belfast Corporation and a member of the Public Health Committee.

At Larne, on January 27, the police preferred two charges against William McConkey, Jubilee Street, of making false statements for the purpose of procuring methylated spirits. Mr. Ernest Poots, an assistant to Mr. John Hall, Ph.C., gave evidence of a person entering the shop on December 4 and asking for methylated spirits; he did not supply him. Mr. Robert Tweed, R.D., said that McConkey, whom he knew, entered his shop on December 4 and asked for methylated spirits, which he said was for "rubbing a dog." Witness did not supply him with the spirits. The summonses were dismissed.



## Business Changes

Mr. C. R. PARSONS, chemist and druggist, has opened a pharmacy at Church Street, Storrington.

Mr. A. E. BRADLEY, chemist and druggist, has opened a pharmacy at 55 Meadow Street, Preston.

Mr. J. P. V. LEONARD, chemist and druggist, has acquired the business of Mr. R. McDaniel, Ph.C., 40A Baker Street, Gorleston.

JAMES TAYLOR (TRONGATE), LTD., wholesale and manufacturing chemists, 132 Trongate, Glasgow, are opening a wholesale branch at 63 Dock Street, Dundee, on February 8.

The business of E. Matcham, Ltd., chemists, 50 Westgate Street, Ipswich, has been closed; the stock, fittings and fixtures have been purchased by Boots, Ltd., and will be sold by auction.

CLIFFORD, CHRISTOPHERSON & Co., chemical merchants, Marlow House, Lloyds Avenue, London, E.C.3, have been registered as a limited company. This development has taken place for the purpose of a permanent association with Albright & Wilson, Ltd., chemical manufacturers, Oldbury.

## Gazette

### Bankruptcy Acts

#### ADJUDICATIONS

ALLERTON, R., Chiswell House, Finsbury Pavement, London, E.C., lately carrying on business as The Hilda Chemical Co.

SWAN, W., 25 Altar Drive, Heaton, Bradford, lately carrying on business under the style of The Laurel Chemical Co., at Hubert Street, Leeds Road, Bradford, chemical manufacturer.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

### Tuesday, February 9

*Manchester, Salford and District Pharmacy Club*, Bowden's Café, 66 Oxford Road, at 8.30 p.m. Cinema night arranged by Mr. Phillipson. Club members are asked to make a special effort to attend.

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Fourth evening meeting of the session. Dr. H. E. Archer (Pathological Department of St. Bartholomew's Hospital and Chemical Pathologist to the West London Hospital) on "Biochemistry, Chemical Pathology and Pharmacy."

### Wednesday, February 10

*Birmingham Pharmaceutical Association*, Masque Dance Hall, Walford Road, Sparkbrook, at 8 p.m. Leap-year dance. Tickets 3s. 6d. each.

*Croydon Pharmacists' Association and Croydon Branch of the Pharmaceutical Society*, Café Royal, North End, at 7 p.m. for 7.30 p.m. Annual dinner. Tickets, 8s. 6d. each, from Mr. H. C. Neve, 1416 London Road, Norbury, London, S.W.16.

*Dundee and East and Central Scottish Branch of the Pharmaceutical Society and Dundee Pharmacy Golf Club*, Kidd's Rooms, Lindsay Street, at 6.30 p.m. Whist drive, supper and dance. Tickets 8s. each. Dress optional.

*Salford Pharmaceutical Association*, Griffin Hotel, Lower Broughton Road, Broughton, at 6.45 p.m. Annual dinner. Tickets, 7s. 6d. each, from the secretary, Mr. T. Cox, 21 Charles Street, Pendleton.

*South-Eastern Associations*, Maitland House, Greenwich, at 8.45 p.m. Mr. Frank Browne, F.I.C., Ph.C., on "The B.P. Codex and its Adaptation to Modern Requirements."

### Thursday, February 11

*Liverpool Chemists' Association and Branch of the Pharmaceutical Society*, Royal Institution, Colquitt Street, at 8.15 p.m. Mr. John Butler, Ph.C., B.Sc., F.I.C., on "Accurate and Inaccurate Dispensing."

*Pharmaceutical Society of Great Britain, Gloucester and District Branch*. Annual dinner.

*Western (London) Pharmacists' Association and West London Branch of the Pharmaceutical Society*, Portman Rooms, Baker Street, London, W.1, at 8 p.m. Annual dance. Tickets, 6s. 6d. each, from Mr. Gwilym Thomas, 105a Crawford Street, London, W.1.

## Topical Reflections

By Xrayser

### Payment of Our Representatives

on the Council of the Pharmaceutical Society is suggested by Mr. John Humphrey as a possible way of attracting to the service of the members capable persons who may be debarred from undertaking such work for financial reasons (p. 109). This argument is probably not unsound, but I feel disposed to support the payment of representatives on much wider grounds. I can remember how well-to-do members of the Council in days gone by would have regarded any such suggestion with contempt, but we can no longer afford to allow people of means to feel that they are entitled to advantageous consideration.

### Medicine Stamp Law

has been so thoroughly sifted by Mr. William Johnston that his recent exposition of the existing state of affairs necessarily merits serious attention. What he has to say about the brand-name problem (p. 113) is of especial interest at the moment, and one wonders how far Mr. Johnston's knowledge justifies his advice that potential users of brand names should wait until the 1932 Budget. Meanwhile I observe that new proprietary preparations offered unstamped with brand names are continually being introduced to the public by means of advertisements in the lay Press, and the particular point about which I

feel strongly is that it was never the intention of the Legislature in 1812 to extend the privilege of selling such remedies unstamped to persons not registered as doctors or chemists. Moreover, regarded as a matter of sound principle, extension of our statutory exemptions under the Medicine Stamp Acts to unqualified persons is distinctly not in the public interest.

### Little Encouragement

is afforded by the Brighton speech of Mr. Melhuish (p. 119) to those of us who like to think that the Council of the Pharmaceutical Society can be relied upon to do all that is necessary to defend our interests and improve our position. Speaking of the Pharmacy and Poisons Bill, the most he could tell his audience was that the measure might be resurrected. It might, not unreasonably, have been anticipated that Mr. Melhuish would have said something to remove the unsatisfactory impression left by Mr. Mallinson's recent remarks at Birmingham, when he spoke with the air of one cracking a whip to warn the Pharmaceutical Council (*C. & D.*, January 16, p. 54). But all that the president of the Society could bring himself to disclose was that the Council had watched, waited and been ready to assist the advancement of pharmacy last year, and—wondrous to relate—was continuing to watch, wait and be ready!

# A Lengthy Inquest

**A**T Birmingham, on January 28, an inquest was opened on the body of Mrs. Mary West, Chester Road, Erdington, who died in the General Hospital. The inquest was conducted by the Birmingham city coroner, assisted by a jury. Mr. Marshall Freeman, barrister, represented Hedges (Chemists), Ltd. The first witness was the widower, who stated that his wife had suffered from dysentery while in India, and from suspected tuberculosis; he knew that she had taken a certain amount of morphine while in Switzerland, and she had told him she was in the habit of taking chlorodyne. Allonal tablets were obtained from a branch of Hedges, Ltd. There were at first orders for bottles containing twelve tablets, and later the accounts showed bottles of 100 tablets. His attention was called on economic grounds to the amount of the bill in September 1931, which showed that in that month four bottles of 100 tablets each, costing 18s. a bottle, had been obtained. The coroner pointed out that in the course of a year and thirteen days 3,716 tablets, about ten a day, were supplied. Witness knew no such doctor as W. Fisher, M.B., who signed the prescription, nor had he ever seen the prescription. When he spoke to his wife about the amount of allonal she had obtained she undertook to reduce it.

Mr. James MacCulloch, chemist and druggist, employed by Hedges, Ltd., as manager, said he was formerly in charge of the branch at which he received the prescription from Mrs. West. He did not know at the time that there was no W. Fisher, M.B., on the Medical Register. Had he had before him an analysis of the quantity of allonal supplied over a period he would not have continued to supply it. Mr. L. C. Bryan, the present manager of the branch, said he knew the amount of allonal supplied, but there were articles in Mrs. West's orders that suggested to his mind that she was under medical supervision, and that reassured him.

## The Secretary of the Pharmaceutical Society Gives Evidence

Mr. H. N. Linstead, Ph.C., secretary of the Pharmaceutical Society of Great Britain, said he would not have done otherwise than the manager of Messrs. Hedges had done. Referring to questions which had been put to the two managers by the coroner regarding the proper place for the issuing chemists' name label (whether on the packet or the inside bottle), his opinion was that the only obligation on the chemist was to see that a packet was distinctly labelled. According to his interpretation of the Regulations nothing more was necessary than the name and address of the person who supplied the drug.

The Coroner: Nothing to indicate what instructions as to the dose should be put?—Normally the doctor prescribing would put his instructions on his prescription, and they would, of course, be carried on to the label. There is no legal Regulation to put any directions for taking on the label. Do you consider that the placing of this label on the outer container or wrapper of such a bottle would be complying with the law?—That again is difficult. It is a matter of interpretation. In the Regulations it says that the person who sends out a poison has to label the box, bottle, vessel, wrapper or cover—the words are box or bottle, or vessel, or wrapper, and so far as I know these words have never been interpreted. One must apply one's ordinary mind to them as to what they mean. If you apply your ordinary mind without prejudicing anyone, you would say it would be reasonable in supplying bottles containing tablets to put it on the bottle?—I agree it would be reasonable. I would not say it would be illegal if it was put on some of the cover containing the tablets. What was the object of labelling?—In order to trace the source of the poisons. If it is put on the outside wrapper which is taken off immediately the wrappings are opened, does it not really circumvent the intention of the Act?—Probably it would. But one is concerned

with the legal interpretation of the words, and therefore I think one is bound to say if they are on some cover surrounding the bottle the requirement of the law has been complied with. I gather you suggest that allonal as a drug is not so dangerous as barbituric acid, and barbituric acid is not as dangerous as some of those in Part I?—I have tried not to express such an opinion but to restrict myself to a legal opinion. As I accept it there is no doubt that a mixture of barbituric acid is taken up in the last clause of Part II of the Schedule.

The Coroner: The Home Secretary has recently taken steps to make barbituric acid, etc., included in Part I?—It would have been if these Regulations had been made. They were not made. The law officers advised that there was no power under the Act of 1920 to make these Regulations. It was also proposed to make it unlawful to supply unless a prescription was dated and signed by a doctor, that such prescription must specify the name and address of the patient, and that a patient cannot be supplied more than once on the same prescription?—Those Regulations were never made. Can you tell me whether your Society ever supported that demand, or did they object?—We have held the view that there is a class of drugs to which it is not necessary to apply the full restrictions of the Dangerous Drugs Act. So you are not in favour of that?—I think for practical purposes that is what these Regulations do. You have heard what was supplied by Messrs. Hedges to this woman. Do you think that was a supply which should be issued to one individual in such quantities, in regular quantities, extending over a year?—Only in exceptional circumstances. What exceptional circumstances come to your mind?—I can only express a personal opinion here. But I would certainly say that unless such quantities were being taken under direct medical supervision they ought not to be supplied. Do you think it would have been a reasonable precaution to have endeavoured to get in touch with the medical man who ordered this drug after some months—would it be reasonable to allow the supply of drugs to go on twelve months without checking or getting in touch with the doctor who gave the original prescription?—My own feeling would have been to get in touch with the doctor earlier. Do you think there is any justification for a retail chemist to supply drugs such as these to a person in such quantities that it exceeds the dose which is laid down on the directions?—I would not tie myself too closely to the dose. I think I could say this—that the retail chemist should certainly not sell drugs of this type solely for the purpose of the profit he is going to make out of them. I have been delighted to hear that that element has apparently not entered into these transactions. I suppose the position to-day is that a person having a doctor's prescription can take it to one chemist and get it supplied and immediately go to the man next door and get a further supply?—That is where the law is lax.

## The Schedule Explained

In answer to Mr. Marshall Freeman, Mr. Linstead said it was clear that the jury could dismiss from their minds that allonal might be included with arsenic and other poisons in Part I of the Schedule. It was in Part II. He agreed that so far as the law was concerned no evidence had been given of any breach of the law by Messrs. Hedges. He had heard that at the same time as the woman was being supplied with allonal she was also being supplied with laxatives. The Coroner: There is no suggestion that these laxatives were being prescribed for her by a doctor? Mr. Marshall Freeman: I would suggest it was hardly necessary. This was a nurse and she would have known. Mr. Linstead pointed out that among the laxatives supplied was one which was not ordinarily known to members of the public. Mr. Marshall Freeman: There was a suggestion that practising chemists would hardly know sufficient about these derivatives of coal tar to be able to give a sound opinion as to their effects. Is it not a fact that



the examinations of the Pharmaceutical Society have been greatly strengthened in recent years and particularly on the analytical side?—I can say without doubt our students are trained and examined on the chemical composition of this type of drug. Whether they know it is another matter. The Coroner: I did not mean to suggest that the examination was not sufficient and exhaustive. I rather felt that this was prospecting into new fields in which it is difficult to keep up to date and to know the details to answer questions on the derivatives and the physiological effect of barbituric acid. I suggested that the question was rather more than one could expect the witness to answer. Mr. Marshall Freeman: I suppose the multiplicity of these derivatives is as much trouble to the medical profession as to the chemist.

Dr. Whitehouse Parkes gave the medical history of the deceased. Questioned by Mr. Marshall Freeman, Dr. Parkes said he could not recollect ever giving allonal to a patient. Mr. Marshall Freeman: You know allonal is not a narcotic?—Not in a medicinal dose. It is non-narcotic?—I don't entirely agree. Did you read up the effects of allonal?—I looked it up in Martindale. Mr. Marshall Freeman: Many things might have caused this sudden unconsciousness?—No, not many things. Mr. Marshall Freeman suggested that boiled mutton, with caper sauce made with vinegar, might have upset an ulcerated stomach. Witness replied that he did not think that compatible with the condition in which he found her.

#### Allonal and Dover's Powder Taken

On the resumption of the inquest on January 30, Dr. Parkes was further questioned by Mr. Marshall Freeman. Dr. Parkes said he knew from the commencement of his being in charge of the case that Mrs. West was taking allonal in small quantities. He also knew she took Dover's powders, but he had no recollection of having prescribed them. The Coroner: There is no evidence that she obtained any opium preparation from either of the two chemists who we know supplied her with drugs. Mr. Marshall Freeman: No more than we have any evidence that she took all the allonal. The Coroner: We have evidence of the allonal. Mr. Marshall Freeman: There is no direct evidence whatever that she took all. Three or four bottles have been found. It is purely a matter of inference, and I propose to apply the same method of inference to the other matter. We agree that it is possible she might have been obtaining Dover's powders from several different sources? Witness: It is possible. Mr. Marshall Freeman: In the accounts for December there were purchased at least four bottles of Dover's powder tablets at 2s. 6d. each. That is a substantial quantity of opium to take between October and January 12?—Yes, more than an ordinary person would take. You told us she deceived you in regard to allonal?—Yes. Supposing for a moment that she had obtained further supplies of opium from other sources, and forgetting allonal, would not that have been sufficient to account for her becoming seriously ill on January 20?—Yes, I think one would have to assume that she had obtained more than we know. Supposing we had never heard of allonal, such a set of facts would account for her unconsciousness and death?—I would not go as far as that. Would you not expect the quantity of allonal she was taking to prove serious in July if it proved serious in January?—There is nothing to prove what dose she was taking. It is quite possible if the tablets were properly spaced they would have no fatal result.

#### Reference to the Literature

Dr. Hardy, assistant physician on the staff of the Birmingham General Hospital, said he had never prescribed opium for Mrs. West. He was told that she was taking Dover's powders, but that she had given that up, and that she was taking allonal up to four tablets a day. He regarded allonal as a narcotic drug, and by that he meant a drug capable of producing sleep. She died from bronchial pneumonia, which supervened after poisoning by one of the barbituric group. The Coroner:

Would you express any opinion as to whether from a public point of view —. Mr. Marshall Freeman: Are we holding an inquiry into the administration of the Pharmacy Acts or into this woman's death? If questions like that are to be put —! I really think we ought to avoid expressions of opinion as to whether Parliament is doing right. If that is to be gone into I shall have much more to say. The Coroner (to Dr. Hardy): You need not answer the question if you don't wish. Perhaps the jury will have something to say. I certainly shall. Mr. Marshall Freeman: Have you often prescribed allonal?—I rarely prescribe it. Mr. Marshall Freeman: In Taylor's Medical Jurisprudence, which refers to poison by 300 different things, there is only one illustration of poisoning by allonal, and that was not fatal. The Coroner: Was her physical condition as you saw it consistent with her having taken all these drugs?—It was consistent with her having taken drugs of this group. Mr. Marshall Freeman: A very different thing. A nurse would receive more liberal supplies from a chemist than, say, an ordinary person?—My own opinion is that a nurse should not be given more latitude than any layman. Mr. Marshall Freeman: You appreciate that what was done was done within legal limits?—I appreciate that.

Police-Sergt. D. J. Davis, coroner's officer, said he searched Mrs. West's house. There were suspicions that she had taken some form of opium. He found no traces. Questioned by Mr. Marshall Freeman, he said he found no traces of opium or any other drug. Mr. Marshall Freeman: Now I gather he was inspired by Dr. Parkes. Dr. Wilson, professor of pathology at the Birmingham University, who carried out the *post-mortem* examination, gave the opinion that death was due to bronchial pneumonia; but that, he said, in answer to Mr. Marshall Freeman, would not be consistent with poisoning by opium.

#### Summing Up and Verdict

Summing up, the coroner said that there was no doubt from the evidence that Mrs. West was taking allonal. It was also clear that she had been taking Dover's powders in tablet form. The jury would have to consider whether she took the overdose by design or by mistake. "I feel constrained," he went on, "to make some observations on the fact that the deceased was able to obtain allonal in large quantities over such a long period. I don't want to look at the law, because it is very intricate and difficult. If the law as it now stands permits such a thing, then it should be remedied. If the form of the Regulations dealing with the dispensing and the sale of poisons is so ambiguous or so loosely drafted as to permit this, it should be remedied. I believe the Regulations should be reasonably foolproof. Mr. Linstead was good enough to come to this inquiry as the secretary of the Pharmaceutical Society and to assist, and I am very much obliged to him. He has told you that by strict interpretation there was no breach of the law in its supply. He also expressed the opinion that the name and address of the seller should be attached to the medicine, and he gave it as his opinion that that condition was fulfilled in this case—the name label was placed on the corrugated wrapping surrounding the bottle and not on the bottle itself. I am not justified in disagreeing with such an authority, but I only mention it because I think it should merit consideration in the proper quarter. I am in complete agreement, however, when he expressed the opinion that the doctor prescribing the drug should have been consulted earlier. I entirely agree with that. There was ample justification for such a statement, in my opinion, and had it been taken the manager would have discovered something." After a short retirement the jury returned the following verdict:—"Death from misadventure by taking overdoses of allonal purchased from Messrs. Hedges. They further are of opinion that the chemist who supplied this drug in such quantities should be censured, and that the Regulations applying to the sale of this drug should be amended, and that the source of supply should be marked on the bottle." The coroner pointed out that the suggestion as to the source of supply was covered by the present Regulations.



## New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

ELNAHAR, LTD. (P.C.).—Capital £100. Objects: To carry on the business of pharmaceutical, manufacturing and general chemists and druggists. Solicitors: Walker, Martineau & Co., 36 Theobalds Road, W.C.1.

J. G. MARLOW & SON, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of elastic web, gimp, trimming, surgical bandage and binding manufacturers, carried on by J. G. Marlow & Son at 7 Pelham Street, Derby.

ELLIOT ORLANDS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists, druggists, manufacturers of and dealers in drugs, perfumery, photographic appliances, etc. R.O.: 43 Green Lane, Stoney-croft, Liverpool.

E. J. FEIRCE & CO. (LONDON), LTD. (P.C.).—Capital £500. Objects: To carry on the business of manufacturers of and dealers in syringes (of metal, glass, vulcanite and rubber), needles, metal cases, surgical, medical, dental and veterinary instruments and appliances, etc.

GORTON CELLULOID CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of dealers in and manufacturers of compounds of cellulose, including celluloid, cellulose acetate and/or other compounds, etc. R.O.: Excelsior Works, Miles Street, West Gorton, Manchester.

BRITANNIC OPTICAL CO., LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in optical, medical, surgical, scientific and other instruments, gold and silver smiths, etc. Solicitors: Kenneth Brown, Baker, Baker, Essex House, Essex Street, W.C.2.

KELLY PRODUCTS, LTD. (P.C.).—Capital £500. Objects: To acquire the business of manufacturers and vendors of polishes and similar products carried on by E. A. Kelly and F. Burnett at 42 Overdale Road, Ealing, and to adopt an agreement with E. A. Kelly, F. Burnett and F. R. Kelly. R.O.: 42 Overdale Road, Ealing, W.5.

DIXOR, LTD. (P.C.).—Capital £3,000. Objects: To carry on the business of manufacturers of and dealers in certain articles known as "Dixor," "Velouty" and "Velouty de Dixor," and to carry on the business of manufacturers of and dealers in essences, lotions, extracts, oils, soaps, cosmetics, etc. Secretary (pro tem.): J. A. Steemson, 19 Kyrle Road, S.W.11.

CENTURY SOAP, LTD. (P.C.).—Capital £5,000. Objects: To adopt an agreement with J. B. E. Johnson and W. K. F. Morrice, to acquire the benefit of a licence to use and exercise a process for the manufacture of soap and glycerine granted to the said J. B. E. Johnson (British Provisional Patent No. 630/31), and to carry on the business of soap manufacturers, etc. R.O.: Walsingham House, Seething Lane, E.C.3.

CLIFFORD CHRISTOPHERSON & CO., LTD. (P.C.).—Capital £10,000. Objects: To carry on business as agents for chemical manufacturers and agents for the sale of chemical products of every kind, chemists, druggists, drysalers, oil and colourmen, etc. The first directors are: D. C. Christopherson, Marlow House, Lloyds Avenue, E.C.3, chemical merchant; K. H. Wilson, Park Hall, Kidderminster, chemical manufacturer; H. C. Christopherson and A. A. King.

G. B. KENT & SONS, LTD.—Report for the year ended September 30, 1931, states that, after allowing for bad debts, depreciation, etc., there is a loss on trading of £4,208 9s. 11d. Interest on mortgages, loans, directors' fees, etc., makes the total £6,125 15s. 11d.

## Private Arrangements

Hewett & Sons, Ltd., chemists and druggists, 36 St. George's Road, Brighton.—A meeting of the creditors was held recently at the offices of Hill, Hunter & Jones, C.A., Brighton, when it was stated that the liabilities were £847 2s. 3d., made up as follows:—Trade creditors, £274 6s. 3d.; cash claims, £69; bankers, £500; and partly secured creditors, £30 15s. 11d., holding securities valued at £26 19s. 11d. After allowing £39 0s. 9d. for preferential claims, the net assets were £279 18s. 1d., or a deficiency of £567 4s. 2d. The assets consisted of cash at bank and in hand, £21 18s. 10d.; stock, £250; book debts, £22; and fixtures, fittings, etc., £25. The deficiency as regarded the shareholders was approximately £1,560. An offer was made of a composition of 5s. in the £, payable in cash, which it was unanimously decided should be accepted.

## Compulsory Liquidation

Solmar Soaps, Ltd., 11 and 12 Finsbury Square, London, E.C. The statutory meeting of creditors and of shareholders in the compulsory liquidation of this company, which carried on business as manufacturers of perfumed and medicated soaps and solidified perfumes, having a factory in Church Road, Upper Norwood, S.E., were held recently in the Board of Trade Offices, 33, Carey Street, W.C. Mr. J. Barwick Thompson, Assistant Official Receiver, presided, and said that the company was registered as a public company in February 1925 with a nominal capital of £60,000 divided into 240,000 shares of 5s. each. In October 1925, however, the nominal capital was consolidated into 60,000 shares of £1 each. According to the statement of affairs filed in the liquidation, the trading throughout had resulted in a gross loss of £1,807. When the available capital was exhausted, the company's immediate financial needs were provided for by the Holywell Standard Chemicals, which concern had throughout acted as secretaries to the company. In January and February 1929 debentures for £10,000 bearing interest at the rate of 8 per cent. per annum were issued to Holywell Standard Chemicals to secure the balance of the moneys so advanced and other moneys then owing. Such debentures formed a floating charge over the whole of the company's property and assets, but owing to the fact that they were never registered with the registrar of joint stock companies they were not a valid charge in the liquidation. The result was that the debentures could not be regarded in the liquidation as giving any preferential claim or charge over the assets. Early in the year proceedings were taken by a creditor and judgment obtained for £538 on November 25, the company not defending, and on December 5 levied execution at the factory, with the result that Holywell Standard Chemicals as the chief creditors presented the petition to wind up the company, on December 11 obtaining the appointment of the Official Receiver as provisional liquidator to protect the assets pending the hearing of the petition. The statement of the company's affairs showed gross liabilities £21,891, of which £21,695 were returned as available to rank, there being twenty-four unsecured creditors. The assets were estimated to realise £2,058 gross, of which £1,000 represented the realisable value of the machinery and £740 stock. A net sum of £1,862 was available to meet the unsecured creditors' claims after payment of the preferential creditors for rates, wages and salaries. On those figures there was a possibility that some dividend would be paid to the unsecured creditors. The directors attributed the failure of the company to various causes, which might be summarised as the alleged extravagant methods adopted by a former employee; the fact that the company began business with insufficient capital; inability to arrange adequate advertising schemes when it was ready to market its products; and the failure of negotiations to obtain additional capital. A resolution was passed for the appointment of Mr. J. Jackson Ewer, C.A., Hart Street, London, as liquidator, with a committee of inspection.



## Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 30, 1930	Dec. 31, 1931	Jan. 30, 1932
Allen & Hanburys 7% Prefd. Ord.	s. d. 21 6	s. d. 20 6	s. d. 21 0
Amalg. Dental Co., 8% Prefd. Ord.	19 0	16 9	16 9
Deferred 5s. ..	3 3	2 6	2 7½
Apollinaris and Johannis, Ord. £1 ..	6 0	2 0	2 6
Ayrton, Saunders & Co., 7½% Prof.	14 6	12 6	12 6
Beechams Pills, Deferred 1s. shares	2 6	1 10½	1 10½
Benger's Food, Ord. ..	30 6	28 6	27 6
Boake (A.), Roberts & Co., 5% Prof.	16 3	15 0	12 6
Boots Pure Drug Ord. ..	111 3	116 3	120 0
Boots Pure Drug, 7% "A" Prefd. Ord.	23 6	23 9	23 9
Boots Cash Chemists (S.), 6% "A" Pref.	21 6	21 9	21 9
Borax Consol., Dfd. Ord. ..	10 0	7 6	8 3
Bovril, 6% Prof. ..	23 0	21 3	20 9
Ord. ..	25 0	21 3	22 0
Dfd. ..	37 3	33 6	32 0
British Cyanides, Ord., 2s. shares ..	1 9	0 10½	0 10½
British Drug Houses, The, Ord. ..	17 0	15 0	12 6
British Oil and Cake Mills, Prefd. Ord.	27 6	26 0	28 6
British Oxygen, Ord. ..	24 0	13 9	12 6
British Photo. Indus., 6% Cum. Prof.	15 6	8 9	7 6
Bush (W. J.) & Co., 5% Prof. £5 ..	63 0	58 9	58 9
Cadbury Bros., 6% Prof. ..	23 3	22 6	22 9
Callard, Stewart & Watt, Ord. ..	27 6	12 6	12 6
Crosfield (Joseph) & Sons, 6½% Prof.	21 6	20 3	20 3
Drug Incorporated (no par value) ..	\$62	\$78	\$73½
Dubarry Perfumery, Ord. 1s. ..	6 0	5 0	5 6
7½% Prof. ..	20 0	18 9	18 9
Eastman Kodak Com. (no nom. value)	\$149	\$118	\$115
Evans Sons Lescher & Webb, Ord.	3 6	2 3	2 3
6s. 8d. shares	4 9	3 3	2 9
Field (J. C. & J.), Ord. ..	11 3	12 6	12 6
Galloway (P. H.), Ord. 2s. ..	2 9	2 6	2 6
7½% Cum. Prof. ..	21 0	19 0	19 0
Gossage (William), 6½% Prof. ..	21 3	20 6	20 6
Grout & Co., Ord. ..	15 0	17 6	18 6
Hodders, Ord. 1s. ..	0 6	0 2	0 2
Idris & Co., "A" Ord. ..	20 9	19 6	19 6
Ilford, Ltd., Ord. ..	46 3	24 0	23 9
6% Prof. ..	20 6	18 9	18 3
Imperial Chemical, 7% Prof. ..	21 9	19 6	19 9
Ord. ..	18 0	14 3	15 0
Dfd. 10s. ..	5 0	4 3	4 4½
Intern. Sponge Importers 6% Prof.	10 0	6 3	6 3
Kent (G. B.) & Sons, 5½% Prof. ..	10 6	6 3	5 7½
Knight (John), 25% Prof. Ord. ..	67 6	60 0	62 6
Laporte (B.) & Co., Ltd., Ord. ..	19 0	18 0	17 6
Lever Bros., Ltd., 7% Prof. ..	22 9	20 9	21 9
8% Prof. ..	22 9	20 6	20 9
20% Profd. Ord. £1 ..	12 0	41 3	42 0
Lewis & Burrows, Ord. ..	28 9	22 6	22 6
6% Prof. ..	17 6	16 6	16 3
Liebig's Ext. of Meat, Ord. £5 ..	£14½	£8	£8
Mellin's Food, 6% Prof. ..	2 6	1 9	2 6
Nathan (Joseph) & Co., 7% Prof. ..	17 0	13 9	12 6
8% Profd. Ord. ..	8 0	5 6	5 7½
National Drug and Chemical Co. of			
Canada, 6½% Prof. ..	2 0	1 6	1 3
New Transvaal Chemical Co., 6% Prof.	20 0	20 6	20 0
8% Prof. ..	22 9	23 0	22 5
Phosferine (Ashton & Parsons) 8%			
cum. partic. Ord. ..	11 3	7 6	7 3
Salt Union, Ord. ..	31 3	26 3	23 9
Prof. ..	32 6	26 3	24 0
Sangers, Ord. 5s. ..	8 3	7 3	7 9
"Sanitas," The, Co., 9% Prof. ..	25 0	21 3	21 3
Sanitas Trust, 10% partic. Prof. ..	22 6	20 6	21 3
Schwepes, Ltd., Ord. ..	31 6	20 0	20 0
Dfd. ..	32 6	20 0	20 0
Smith (Stephen) & Co. Ord. 5s. ..	6 0	6 0	7 0
Scidol Chem Co., Ord. 1s. ..	0 2	0 1½	0 2
Southall Bros. & Barclay, Ord. ..	103 6	107 6	108 9
5% Prof. ..	19 3	20 6	20 0
Spratt's Patent, Ord. ..	48 0	46 3	48 9
Stevenson & Howell, 6½% Cum. Prof.	17 6	17 0	16 3
Taylor's Cash Chemists (Lon.) 1s. Dfd.	1 6	0 7	0 6
Taylor's (Cash Chemists) Trust, 7½%			
Cum. Prof. Ord. ..	18 9	9 9	9 9
1s. Dfd. ..	1 10½	0 7½	0 8½
United Glass Bottle Man., 6% Mt.			
Deb. Stk., £100 ..	£103	£100	£100
Veno Drug Co., 8% Prof. ..	15 0	12 6	12 6
Viro, Ltd., Ord. ..	65 0	30 6	30 6
7% Prof. ..	21 3	20 3	20 6
White (A. J.), Ltd., Ord. 10s. ..	12 6	11 3	10 7½
White (Timothy), 7½% Profd. Ord.	21 0	16 9	16 6
1s. Dfd. Ord. ..	1 10½	1 3	1 4½
Wright Layman & Umney, 6% Prof.	20 7½	19 9	20 0

## Retail Pharmacists' Union

## Executive Meetings

MEETINGS of the Executives of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on January 26, Mr. W. H. Clubb in the chair.

## NATIONAL HEALTH INSURANCE APPLIANCES

The Executive agreed to the suggestion which had been received from the Ministry of Health that ichthyol tampons should be included in the Second Schedule as appliances. It was also agreed that Benedict's solution, elastic adhesive bandages and zinc paste bandages should be added to the tariff and Schedule of Appliances respectively, and that sterules of sod. arsen. et ferri (under a suitable designation) for hypodermic injections should be added to the list of drugs and appliances in the Appendix to Part 2 of the Distribution Scheme.

## DESTAMPING OF PROPRIETARY ARTICLES

The secretary was authorised to make representations to the Chancellor of the Exchequer regarding the destamping of proprietary articles, and the incidence of medicine-stamp duty.

## TELEPHONE BREAKDOWN SERVICE

The secretary reported that he had approached the Controller of the London Telephone Service with a view to securing for chemists the same privilege which was given to doctors and hospitals in regard to an emergency service in the event of the telephone connections breaking down. The Controller had stated that it was not possible to include, as a matter of course, all lines provided to the premises of chemists. There would, however, be no difficulty for a chemist who provided a night-and-day service obtaining assistance (outside normal hours) from the superintendent, to whom any breakdown should in such cases be reported at once.

## C.D.A. Matters

The secretary reported that of the eleven cases outstanding since the last meeting five might be considered closed, and four had been settled as follows:—Injuries caused by ear drops: claim settled by payment of £63. Injuries caused by pot. chlorat. pellets; claim settled by payment of £25 5s. Injuries caused by explosion of mixture of nitric acid and spirit of tar in member's shop; claim settled by payment of £2 17s. 6d. Camera lost from member's premises; claim settled by payment of £1 7s. 6d. Nine new cases had arisen, but settlements had been effected in seven of them:—Clothing damaged by bleaching liquid owing to faulty cork: claim settled by payment of £2 15s. Injuries caused by disinfectant supplied for gargle; claim settled by payment of £1 4s. Battery spoiled by wrong strength acid supplied; claim settled by payment of £3 5s. Damage to clothing by castor oil spilled in member's shop; claim settled by payment of £2 2s. Damage to clothing caused by fall over member's shop mat; claim settled by payment of 3s. 11d. Injuries caused by cycling errand-boy; claim settled by payment of £3 15s. Damage to car by cycling errand-boy; claim settled by payment of £9 4s. The secretary reported that members had been defended in various legal actions, that forty-six analyses had been undertaken for members under the "free" arrangements, and that legal advice had been given upon a variety of subjects.

**Leamington.**—The Warwickshire Branch of the Retail Pharmacists' Union met on January 28, Mr. Hutton in the chair. Further particulars as to the appointment of local correspondents was submitted; a complaint as to dividends being given on P.A.T.A. goods in certain districts was submitted to a member for further investigation. A discussion on branch organisation followed. It was resolved that the first opportunity be taken to deal with the question of welfare clinics in certain districts in the area of the Branch.



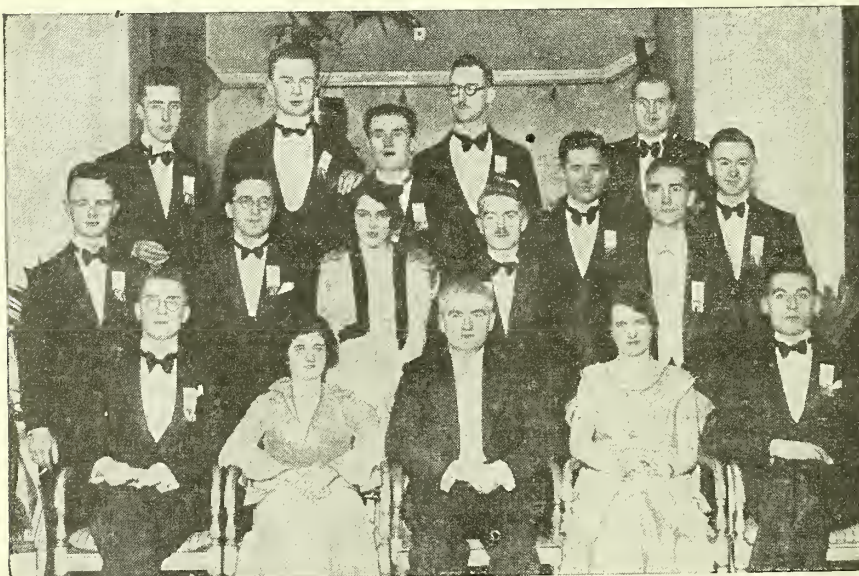
# A Dublin Dance

THE fourth annual dance of the "Pharmaceutical Chemists and Students" was held on January 27, at the Gresham Hotel. The function, which was under the patronage of Mr. C. J. Cremen (vice-president of the Pharmaceutical Society of Ireland), attracted a gathering of over 600 chemists and their friends, and proved an enjoyable and successful event. Dancing began in the finely-appointed Aberdeen Hall at 10 p.m., and continued until after 3 a.m. A striking feature of this year's event was the large collection of beautiful gifts awarded as spot prizes. Those who presented prizes were as follows:—Hayes, Coyngnam & Robinson, Ltd.; Kolynos, Inc.; J. & E. Atkinson, Ltd.; Ayrton, Saunders & Co., Ltd.; The British Drug Houses, Ltd.; Yardley & Co., Ltd.; Saville Perfumery, Ltd.; Vinolia Co., Ltd.; United Drug Co., Ltd.; R. J. Reuter Co., Ltd.; Beechams Pills, Ltd.; Potter & Moore, Ltd.; A. & F. Pears, Ltd.; Parke, Davis & Co.; United Chemists' Association, Ltd.; Hamilton, Long & Co., Ltd.; MacLean's, Ltd.; Butywave Co.; Trufood Ltd.; Gillette Industries, Ltd.; Coty (England), Ltd.; Gollin & Co., Pty., Ltd.; T. Christy & Co.; The Aerograph Co., Ltd.; A. de St. Dalmas & Co., Ltd.; May, Roberts & Co., Ltd.; Nyal Co., Ltd.; Fairy Dyes, Ltd.; Boileau and Boyd, Ltd.; Solway Frères, Ltd.; Evan Williams & Co., Ltd.; Mr. V. E. Hanna, Mr. Collins; Mr. J. J. Roche; Selo, Ltd.; Butler's Medical Hall, Ltd.; Wigglesworth, Ltd.; and Innox Beauty Preparations Agency. The organisation and arrangements were in the hands of a committee consisting of Mr. E. McMahon (chairman), Mr. L. W. Clarke and Mr. W. F. Keys (secretaries), Miss V. Kieran (treasurer), Miss Knox and Messrs. J. Chambers, J. Smith Lawlor, Lamphier, Walsh, J. S. Bennett, J. Lawless, J. McGovern, M. MacMahon, McLoughlin, F. E. Smith, T. P. O'Sullivan, P. Morris, Kavanagh, and H. Carney. The distinguished company included the Rt. Hon. the Lord Mayor of Dublin (Mr. Alfred Byrne), Mr. C. J. Cremen (vice-president of the Pharmaceutical Society of Ireland), Mr. Denis J. Nugent (past-president of the Pharmaceutical Society of Ireland), Mr. and Mrs. Watson, Mr. and Mrs. Morton, Mr. Collins,

Mr. O'Brien, Mr. and Mrs. Hamilton-Keys, Mr. and Mrs. Sinclair, Mr. and Mrs. Tully, Mr. and Mrs. Boyce, Mr. and Mrs. P. A. Brady, Mr. P. J. Killacky, Mr. E. Ronaghan, and Mr. and Mrs. Hughes.

Following the supper Mr. L. W. Clarke, proposing the toast of "The Pharmaceutical Society of Ireland," said that owing to the energetic work of its presidents and past-presidents the Society had now attained a position and prestige in the country equal to, if not greater than, that of the other professional bodies. He expressed the hope that when the Pharmacy Bill was passed pharmacy in Ireland would be placed on a very high level. Mr. C. J. Cremen, replying on behalf of the Society, hoped that the Society would continue its good work and raise pharmacy to the standard they all wished to see. Mr. E. McMahon, proposing the toast of "The Lord Mayor and the Guests of Honour," said they were delighted indeed to have the first citizen of the city with them that night. They were glad also to have the vice-president of the Society and the lecturers who worked so hard to make them qualified chemists. These happy reunions, Mr. McMahon observed, served the useful purpose of bringing employers and employees together. The Assistants' Association was not an organisation which was ever on the offensive, but on the defensive, defending their rights and demanding that pharmacy should have a position worthy of the entrance of any young man or woman to it. He hoped that when the Pharmacy Bill was introduced their Association would not be lacking in giving all the support they could to the Pharmaceutical Society and any other body whose object was the placing of pharmacy on a proper footing. The Lord Mayor, acknowledging the toast, said it was one of his greatest pleasures to accept the invitation of the chemists' assistants' organisation. Although he had several other pressing engagements that night, he felt he could not be absent. He had come into contact with pharmacists both in the Dail and the Senate, and it was always a great pleasure to discuss with them matters affecting the profession. He always held pharmacists in the very highest esteem, and was especially thankful to Mr. McMahon and his committee for their invitation. They were to be congratulated on the success of the night.

He understood that Mr. McMahon was about to leave the ranks of the employees to become an aristocrat—he meant an employer; Mr. McMahon had everyone's good wishes for his success. The Lord Mayor promised that when the Pharmacy Bill was introduced he would use his influence to have the profession made one of the best protected in the country. The toast of "The Chemists' Assistants' Association" was proposed by Mr. D. J. Nugent, who complimented the committee on the excellence of their organisation. It gave him great pleasure to think that when they, the older members of the Pharmaceutical Society—who had given their time to make the profession what it was—retired from the field they had young men of such calibre and energy to take their places. Mr. McMahon, in felicitous terms, replied to the toast.



ORGANISING COMMITTEE AT THE DANCE HELD IN THE GRESHAM HOTEL, DUBLIN, ON JANUARY 27. IN CENTRE OF FRONT ROW, MR. C. J. CREMEN, VICE-PRESIDENT OF THE PHARMACEUTICAL SOCIETY OF IRELAND



## Association Meetings

**Liverpool.**—The eighty-third annual meeting of the Liverpool Chemists' Association was held on January 27. Mr. L. Moreton Parry (retiring president) occupied the chair during the first part of the proceedings. Mr. Parry referred to the death of Mr. J. H. Battley, who, though not a member of the Association, was as a well-known commercial traveller closely associated with them; he was also a hard worker for the Benevolent Fund. The secretary (Mr. John Rae) presented the annual report. The president proposed a vote of thanks to Mr. Rae for his excellent report and also for his secretarial work during the year. The treasurer's report was submitted by Mr. Martin Hughes, in regard to whom Mr. Harold Wyatt remarked that the work he did was for the benefit of the trade generally. Mr. Hughes was formally thanked on the proposal of the president. The president said he would like to express his appreciation of the support he had received during his two years of office from the officers and members of the Council, and especially from Mr. J. L. Hirst, the vice-president. Mr. H. Humphreys Jones, on being installed as president for the ensuing year, said he valued the privilege very much, especially as he was following one who had for so many years occupied so prominent a position in pharmacy. Mr. Moreton Parry was elected to the Council during the time he (the speaker) was previously president nineteen years ago. He would like to convey to Mr. Parry the thanks of the Association for the services he had rendered. Mr. Humphreys Jones then proceeded to give an interesting address on the structure of the atom. Mr. George Clubb was elected *Vice-President*; Mr. Rae was re-elected *Secretary*; and Mr. Hughes *Treasurer*.

**London (S.E.).**—A meeting of the South-East London Branch of the Photographic Dealers' Association was held on January 20, Mr. J. Milner presiding. An interesting address on *What the Amateur Expects from the Dealer* was given by Mr. D. T. Nunn (secretary of the Woolwich Photographic Society). Mr. Nunn analysed the types of photographers from "button-pushers" to "know-alls," and gave sound advice as to how each could be dealt with. He recommended dealers to become associated with local photographic societies, whose members, being enthusiasts, were the best photographic customers.

**Manchester.**—A joint meeting of the Manchester Pharmaceutical Association and the Manchester, Salford and District Branch of the Pharmaceutical Society was held on January 27, Mr. James Grier, M.Sc., in the chair. Dr. A. R. Macdonald (Reader in Materia Medica and Therapeutics, Manchester University) gave an address on *Glands and Glandular Secretions*. Glands, said Dr. Macdonald, consisted of epithelial cells which were highly specialised for secretion. The preparation and setting free of certain substances of physiological utility were described. Lantern slides were exhibited showing the effects of deficiency in the activity of certain glands, such as pituitary, thyroid and suprarenal, as well as examples of over-activity of pituitary and thyroid. The lecturer emphasised how imperfect was our knowledge on the value of these glandular products. He was afraid that many glandular products on the market had no real claim to any place in medicine. A cordial vote of thanks was proposed by Mr. E. H. Simmons.

**Thames Valley.**—A meeting of the Thames Valley District Pharmacists' Association was held on January 26, Mr. W. S. Howells (president) in the chair. The meeting was called to hear a debate between Mr. Norman Dewey and Mr. C. B. Harrison on *Pharmacy: Profession or Trade?* Mr. Dewey opened the discussion. He thought that chemists had lost doctors' dispensing in the past by apathy and independence, and it seemed to him that if there was a Board of Control over pharmacy they could regain the professional status to which they were entitled. N.H.I. dispensing had tended to prove that they were a profession. Mr. Harrison, in reply, said pharmacy was distinctly a trade. When they spoke of a profession

they thought of a solicitor or architect or the like, whom they could consult, but did not get anything tangible in return. As an illustration of a trade he took the case of a builder who gave something tangible in return. With dispensing something tangible was given in return. He thought they had made a gift of their prestige and goodwill to the wholesaler, who did practically all their manufacturing and packing. Many members took part in a discussion. At the request of the president a vote was taken on the view whether pharmacy was a trade or profession; the result was fourteen in favour of the profession and ten in favour of the trade. Several present did not vote.

**West Middlesex.**—A well-attended meeting of the West Middlesex Chemists' Association and Branch of the Pharmaceutical Society was held on January 19, the president (Mr. J. E. Alcock) in the chair. An address was given by Mr. F. C. Goodall (editor of the "British Trade Review," and formerly secretary of the Sound Currency Association), entitled *The Gold Standard and What it Means*. After dealing generally with the events that led up to the abandonment by this country of the gold standard, Mr. Goodall said that higher prices were being paid by importers for goods from gold standard countries, but a number of countries were now off gold and the currency of some countries was actually at a discount compared with sterling. This country was therefore preferably importing goods from these countries. Mr. Goodall agreed that those who predicted financial collapse if the gold standard was abandoned had been proved wrong, and it was possible that this country would not again return to gold, but it was desirable that sterling should be stabilised at some level as soon as possible. A spirited discussion followed Mr. Goodall's address, and many members asked questions. A vote of thanks to Mr. Goodall was proposed by Mr. Dobson.

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## Noteworthy Display Points

WHERE a shop has a frontage to a busy thoroughfare and another facing a less-used road, the main street windows should include a well-written card drawing attention to those at the side. One chemist in such a position makes a point of always including a good-value line in his side window, and announces it in a prominent position in the main display. He estimates that this simple idea has increased the "attention-value" of his side window by 50 per cent.

The chemist whose shop is situated on a 'bus or tram route should not overlook the value of the upper portion of his display space. Passengers in these vehicles can study the top of the window above the heads of the crowd on the pavement, and goods shown in this position thus secure a considerable amount of worth-while attention. Several London shops have adopted the plan of having a series of shelves fitted toward the top of the window, in order to make the most of the extra publicity thus available. Displays in this position should be bold and simple, while price tickets should be legible from a distance.

A new difficulty for the retailer has been created by the popularity of motoring, for many customers who arrive by car hesitate to spend too long in the shop because of the likelihood of police complaints of obstruction. In these circumstances it is a good plan to include in the display a card headed "To our motoring customers," giving briefly the whereabouts of the nearest parking place, or of a quiet road where cars may safely be left for a reasonable period.

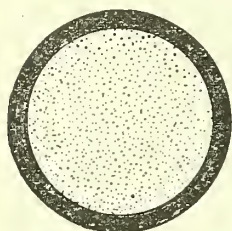
Co-operative display work by two or more retailers acting in concert is an idea that is worth consideration. As an example, a number of traders in the same street recently decided to hold a "Motoring Display Week," and each gave prominence to motoring requisites—an outfitter displaying coats and gloves, a radio dealer showing portable sets, a chemist featuring picnic sets, first-aid outfits, and so on. A similar series of displays could be designed around "Safety Week" and other subjects. Such co-operation is not difficult to arrange and attracts wide attention.—G. F. W. (22/6).



# Sintered Glass Filters

By H. E. F. Notton, B.Sc., A.R.C.Sc., and J. F. Ward, B.Sc., M.P.S.

IN matters concerning filtration the knowledge of the practising pharmacist is, like the immortal Sam Weller's knowledge of London, "extensive and peculiar." The solutions which he encounters include many which are viscous, corrosive, or highly colloidal in nature; at one moment he is removing with meticulous



SINTERED GLASS DISC WITH  
FUSED EDGE

care the last particle from a few c.c. of injection material, at the next he is required to filter with reasonable rapidity quantities of many gallons. Under these conditions the limitations of the commonly available filtering materials soon become apparent, and it is not surprising that the sintered glass filters introduced in 1923 by Schott & Gen., Jena, met with an immediate welcome on all hands, and have already been applied to a great variety of uses. The sintered glass filters are composed of Jena laboratory glass ground to a powder and sifted. Granules of uniform size are then sintered together without the addition of any extraneous material to form a coherent and highly porous filtering material. This is obtained in the form of flat or (in the larger sizes) convex plates of up to 60 cm. in diameter which in diameters of not more than 18 cm. may be fused into more than one hundred different types of apparatus to adapt them for various purposes. Some of these are highly specialised. The coarseness or fineness of the glass powder used determines the degree of porosity of the resulting filter. The more important grades of filter, with some of their principal applications, are shown in the following table:—

Grade	Mean diam. of pores (microns)	Principal applications
1 ..	100—120	Filtration of coarse sediments. Support for filter layers of asbestos, cellulose, etc. Coarse gas filter. Distribution of gases in liquids.
2 ..	40—50	Preparative work with coarsely crystalline solids. Filtration of highly viscous liquids.
3 ..	20—30	Most preparative work. Analytical work with medium-fine precipitates—e.g., those encountered in the paper making, dyestuff, and artificial silk industries. Fine gas filter. Mercury filter.
4 ..	5—10	Analytical work with fine precipitates—e.g., Barium sulphate, cuprous oxide, etc. Preparative work with finely divided substances. Rendering crystalloid solutions optically pure by removal of dust particles. Mercury valves for thermostats, etc.

Filters of grade 4 are further sub-divided by the makers into rapid and slow filtering classes. Three other grades of filter are used, two very coarse types used principally for the distribution of gases in liquids on the technical scale, and one very fine type (grade 5) recently introduced, for which, no doubt, many applications still remain to be discovered. The glass filters

are distinguished by designations of the type 25 G4 in which the first number indicates the size and shape of the apparatus, the capital letter the kind of glass used, and the last number the grade of porosity of the filter. In addition to the purposes for which glass filters possess obvious advantages, such as, for example, the filtration of corrosive liquids, they have also considerable merits for general filtration purposes. Thus it is generally possible, owing to the large range of porosities available, to carry out a filtration more rapidly with a glass filter than with any other type. Furthermore, where solutions of known strength are required, the almost total absence of adsorption effects in glass filters is of advantage, and owing to the great chemical resistance of the glass the danger of contamination from the filter material is negligible. Finally, they do not introduce fibrous or other debris into the filtrate. The two obvious disadvantages of glass filters are their liability to fracture and the fact that they are too expensive to be discarded as soon as they are clogged with impurities. It should also be noted that all filters will stand treatment with boiling water without previous warming and will support a pressure difference of about one atmosphere between the two sides of the disc. The second disadvantage is also to a great extent counterbalanced by a number of circumstances; for example, the filters are usually easily cleaned mechanically by spraying with water, running water through in the reverse direction, scrubbing with a soft brush, etc. The resistant nature of the glass facilitates thorough chemical cleaning, and it is only necessary to apply the appropriate solvent to remove any given impurity excepting silica and insoluble silicates. These, when not removable by mechanical means, may sometimes be dislodged by a short treatment with 10 per cent. hydrofluoric acid followed by a thorough washing, but this process naturally cannot be carried out too often. When large quantities of clear filtrate are required it may be convenient first to remove the bulk of the sediment by means of an appropriate coarse filtering material, leaving to the glass filter the task of imparting the final brilliance. A rapid filtration may also be effected by using one of the coarser filters as a support for a layer of filter paper pulp or asbestos fibre, and this is particularly desirable where it is necessary to filter off material of a slimy or gelatinous nature.

## Preparative and General Work with Vacuum

Filtrations with the smaller sized filters of grades 3 and 4 are usually carried out by the aid of reduced pressure. A convenient small scale arrangement for this purpose is that shown in Fig. 1. Designed originally for the operations of qualitative inorganic analysis, it enables the filtration, washing, and after treatment of the precipitates obtained in the group separations and acid radical tests to be carried out with surprising rapidity. In addition the thoroughness with which precipitates are washed and sucked dry renders the separations far more clean-cut than is commonly the case when paper filters are used. The apparatus is also suitable for the filtration of small quantities of liquid for hypodermic injections, etc., although many will prefer to use for this purpose the same filter (11 G4)

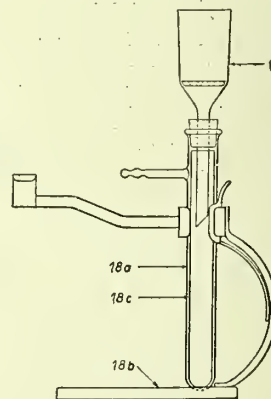


FIG. 1



with a receiver of the Witt type. For many purposes, however, a filter of Büchner funnel type is more suitable (Fig. 2), and, if a source of vacuum is available, very good results can be obtained with filters of moderate diameter. For example, the type 17 G4 rapid, which has a diameter of about three inches and a capacity of about five ounces, will filter, under a vacuum of about 200 mm., distilled water, physiological salt solution, or simple alkaloidal solutions at the rate of almost a pint per minute. Concentrated solutions of mineral salts, tinctures, spirits, etc., are filtered at one-half to one-quarter of this rate. Steam heating may be applied to assist the filtration of such materials as 50 per cent. glucose, 10 per cent. gelatin, simple syrup, etc., by winding a coil of lead or soft copper tubing round the filter. In the filtration of solutions which attack filter paper, glass filters have a field of usefulness all their own. Such are, for example the, mineral acids, Fehling's solution, 30 per cent. zinc chloride and 10 per cent. silver nitrate. Cold concentrated sodium hydroxide has little action on the filter, but the hot solution soon causes it to disintegrate.



Fig. 2

Before leaving the subject of suction filters, mention should be made of the immersion filters which allow the operation of decantation to be carried out with the utmost ease and certainty. The filter is suspended in the liquid to be filtered, preferably after the precipitate has been allowed to settle to the bottom, and the clear filtrate is pumped off.

#### Preparative and General Work without Vacuum

Mention should be made of two classes of glass filter apparatus which are particularly useful when a source of vacuum is not available. The first class comprises the larger Büchner funnels 26 G3 and 4 and 151 G3, which have diameters of about five and seven inches, respectively. These filter most solutions under gravity alone with a rapidity sufficient for most ordinary purposes. The filter 151 G2 is also excellent for removing fibrous matter from solutions which have already undergone paper filtration, and it filters at the rate of many litres per minute. The second type of apparatus referred to is the Sintrax coffee machine (Fig. 3) for the preparation



Fig. 3

of decoctions, infusions, etc. This consists of a resistance glass flask holding about 250 c.c. and with a 200 c.c. graduation mark. In it is supported by means of a closely fitting rubber stopper a funnel with sintered glass disc and stop cock. In use, the required amount of water, with 10 per cent. extra to allow for loss by evaporation, is placed in the flask. The funnel is charged with the powdered drug and closed by means of the lid, after which the stop cock is opened and the flask is heated over a wire gauze. This causes about two-thirds of the water in the flask to be driven up into the funnel. When boiling ensues the steam passing upwards soon heats the contents of the funnel to boiling point and churns all thoroughly together. After thirty minutes' boiling the apparatus is set in a cool place, when the resulting condensation causes the decoction to be rapidly and completely sucked back into the flask, where it may be brought up to the required volume. If cold filtration is prescribed the tap is closed as the apparatus is removed from the flame and opened only after the whole has cooled down. The flask is made sufficiently strong to withstand the resulting pressure

difference. In the preparation of infusions the water is brought to the boiling point in the funnel as described above, before the drug is introduced. The Sintrax apparatus is also convenient for percolations and for filtrations in general. For the latter purpose the flask is evacuated by boiling up an ounce or so of water in it and allowing it to cool down with the tap closed. The product to be filtered is then placed in the funnel and the tap gradually opened to start the filtration.

#### Filters for Quantitative Analysis

Glass filters have probably found more applications in quantitative analysis than in any other branch of chemistry. The glass filter crucibles (Fig. 4), of which 1 G3 and 1 G4 are probably the most generally used, usually replace with advantage the Gooch crucible for gravimetric work. Their chief advantages are: They require

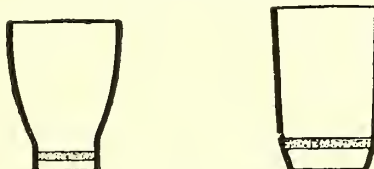


Fig. 4

no preparation, they possess an excellent constancy of weight in presence of acids and dilute alkalis, they give rapid filtration and washing, and come quickly to constant weight at 120° C. They can, with care, be ignited at 600° C., but for higher temperature quartz filter crucibles must be employed. These may be heated to 1,300° C. without special precautions.

Numerous special types of filter crucibles are available for analytical purposes. There are, for example, crucibles for anthracene determinations, others for use with extraction apparatus of the Soxhlet type, and others provided with covering plates or stoppers for use in the artificial silk, cellulose, paper and tanning industries. Of greater interest to the pharmacist is the apparatus of Heiduschka and Muth for the determination of fats in powdered solids. It consists of a 2 G4 crucible with polished plate held in an adaptor ground into the neck of a small distilling flask. The powder is weighed out into the crucible, which is provided with a glass stopper for this purpose and extracted with successive quantities of a suitable solvent. It is thoroughly stirred up at each extraction with a small spatula. The extracts are sucked off into the flask, which is closed with a glass stopper for the purpose of recovery of the solvent by distillation and for determination of the amount of residue. Filters with polished plates are also useful for other analytical purposes, such as the determination of sediments in urine and the estimation of cuprous oxide in sugar.

The absence of adsorption effects and of chemical reactivity in general renders glass filters suitable for the filtration of all kinds of standard solutions for volumetric analysis and particularly for sodium hydroxide and alcoholic potash solutions, since these are filtered so rapidly that no appreciable amount of contamination from the atmosphere can take place. Glass filters are also used for the purification of chemicals, such as sodium chloride, potassium dichromate, succinic acid, etc., which are commonly used as analytical standards. Sodium chloride, for example, may be precipitated by hydrogen chloride, filtered, washed with hydrochloric acid and the crucible and its contents dried on the water bath and finally at 200° C., the whole operation being carried out in the minimum of time and with the maximum freedom from contamination. Finally, reference may be made in passing to the comprehensive series of glass filter apparatus for micro-chemical purposes. These are adapted for use according to the methods of Pregl, Allihn, Emich and others (Fig. 5).

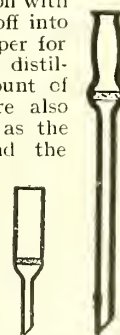


Fig. 5

### Filters for Mercury

Unlike most other liquids, mercury does not tend to pass into the pores of glass filters by capillarity, and a definite pressure is necessary to force it through the filter. In the case of filters of grades 2, 3 and 4, the pressure amounts to a few c.m. of mercury, less than one atmosphere, and considerably more than one atmosphere, respectively. The two coarser grades are thus suitable for the purification of mercury by filtration, grade 2 being used with gravity alone, and grade 3 with a filter-pump vacuum. Grade 4 filters being practically impermeable to mercury but easily permeable to gases, have lent themselves to the construction of a number of ingenious safety valves, cut-offs, and thermostatic controls.

### Apparatus with Clear Glass Plates Fused In

Although this apparatus does not contain the glass filter, it may be of interest to refer to it here, since it is produced by the same process as is used to seal in the filter discs. For example, colorimeter tubes with optically flat ends, with or without side taps, are available. Cuvettes, drum-shape vessels with optically flat ends, are also supplied, and these are employed in the monochromator of Christiansen-Weigert. This consists of a cuvette containing coarsely powdered glass, the interstices of which are filled with methyl benzoate. With suitable illumination this gives an intense beam of monochromatic light, the wave length of which depends on the temperature of the cuvette.

### The Treatment of Gases

The apparatus in this section falls into two classes, namely, gas-filters and apparatus for introducing gases into liquids in a state of fine division. The former are made in a number of sizes (Fig. 6), and are adapted for many purposes, e.g., the filtration of soot from samples of flue gases prior to analysis and the removal of mist or spray from recently generated gases. When a gas is passed upwards into a liquid through a glass filter it is obtained in very fine bubbles, and any reaction between the two is considerably facilitated. This principle has been applied in the gas-distributing tube (Fig. 7), and in various modifications of the Drechsel gas washing bottle (cf. Fig. 8), which are excellent for the thorough scrubbing of gases. They are also suitable for carrying out reactions involving the use



FIG. 6



FIG. 7

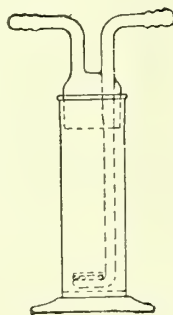
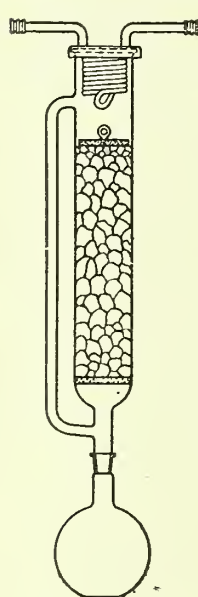


FIG. 8

of chlorine, bromine, nitrous gases, etc., such as the preparation of ethylene dibromide, pinene nitrosochloride, 3-nitro-4-hydroxybenzoic acid, etc., and the chlorination of aromatic hydrocarbons. Sintered glass discs of considerable size have been used on the technical scale for reactions of this kind and also in the fermentation industries for introducing air and other gases into such preparations as yeast cultures. An interesting novelty is provided by a gas-generator on the Kipp principle in which the solid material (for example, ferrous sulphide) is contained in a vessel with a sintered glass base which dips into the acid.

### Extraction Apparatus with Glass Filters

Many types of apparatus are available for the continuous extraction of solid and liquid products with solvents. In the first place there are crucibles with sintered glass plates and also thimbles constructed entirely of sintered glass, which replace the usual paper thimbles used with the Soxhlet extraction apparatus.



Left: Extraction Apparatus with loose Glass Disc and Copper Spiral Condenser



Right: Perforator used for Solvents lighter than Water

In other types of apparatus the sintered glass plate is fused into the Soxhlet adaptor itself, which gives considerably greater capacity for an apparatus of given size. In this type it is usually unnecessary to have recourse to the syphon principle for emptying the adaptor, an equally good extraction being obtained with a continuous flow through, if a disc of sintered glass is placed on top of the material being extracted so as to give an even distribution of the liquid falling from the condenser. These extractors are commonly used in conjunction with a ground-in Liebig's condenser, but, when permissible, it is convenient to use a tinned copper spiral condenser suspended in the adaptor. This is just as efficient as the glass condenser, and has, of course, the additional advantage of being unbreakable. An exceedingly simple arrangement for continuous extraction on the small scale consists of a copper spiral condenser with a filter crucible suspended underneath it, the whole being supported in the neck of a capacious wide-mouthed conical flask. The continuous extraction of liquids by solvents lighter than water is also considerably facilitated by the use of glass filter discs. In the apparatus known as a perforator the solvent is delivered from the condenser into a funnel leading beneath a glass filter disc at the base of the extraction vessel. It rises through the disc in fine drops which fill the entire cross-section of the extraction tube. The size of the drops depends on the surface tension of the two liquids and on the porosity of the filter used. In general, the lower the surface tension of the solution being extracted the smaller will be the drops of solvent. The perforators are available in a number of sizes, the smaller ones being suitable for quantitative work, and the larger ones, holding up to two litres, for preparative work. Examples of their use include the extraction of the more soluble bases and alkaloids from aqueous solutions, the isolation of ergosterol from yeast concentrates, and the extraction of methylated sugars from the original reaction mixtures. In perforators used with liquids heavier than water the solvent is not introduced through a glass filter, but it is advantageous to introduce a gas distributing tube through which a suitable inert gas may be passed in order to churn up together the contents of the extraction tube.



## Births

Notices for insertion in this column must be properly authenticated.

RUSHTON.—At 32 Falkland Road, Southport, on January 30, the wife of G. I. Rushton, chemist and druggist (Rushtons (Chemists), Ltd.), of a son.

SANDERSON.—At 43 High Street, Peebles, on January 26, the wife of W. J. Sanderson, chemist and druggist, of a son.

## Marriages

TINGEY—REED.—At St. John's Church, Windermere, on January 18, Harry Tingey, chemist and druggist, to Jessie Reed.

## Deaths

ATKINSON.—At Cockermouth, on January 7, Mr. Richard Atkinson, Ph.C., aged seventy-two.

BATTLE.—On January 22, suddenly, Mr. James Houghton Battle, 31 Curzon Road, Waterloo, Liverpool, for about thirty years a representative of Smith & Co., manufacturing chemists, 132 Borough, London, S.E.1, aged sixty.

BIHELLER.—On January 24, while travelling in Germany, Mr. Simon Biheller, managing director of Weiss, Biheller & Brooks, Ltd., sundriesmen, 68-71 Chiswell Street, London, E.C.1, aged sixty-seven.

GARDNER.—At Low Fell, Gateshead, on January 1, Mr. Robert Gardner, chemist and druggist, aged eighty.

HATHAWAY.—At Lydney, on January 15, Mr. Frederick Henry William Hathaway, chemist and druggist, aged sixty-five.

HEAP.—Recently, as the result of a motor-car accident, Mr. Clifford H. Heap, salesman and representative on the staff of Parkinsons, Ltd., chemists, Curzon Street, Burnley. At the funeral, which took place at Burnley on January 27, Messrs. Parkinsons were represented by Mr. G. Leaver, and the floral tributes included wreaths from the directors and the staff.

HUCKLEBRIDGE.—At Needham Market, on January 7, Mr. Wilfred Hucklebridge, chemist and druggist, aged sixty-nine.

MCPHERSON.—At his residence, Durriss House, Newburgh, Aberdeenshire, on January 30, Mr. Frederick Charles McPherson, chemist and druggist. Mr. McPherson was a native of Aberdeen, and after qualifying in 1892 was for some time at Burghhead; nearly forty years ago he set up in business in Newburgh, where he earned the respect of all with whom he came in contact. Mr. McPherson is survived by a widow, a son and two daughters. His son, Mr. R. McPherson, chemist and druggist, will continue the business.

MASON.—At King's College Hospital, London, S.E.5, on January 28, following an operation, Mr. Joseph Edwin Mason, Ph.C., 24 High Street, Bexley. Mr. Mason passed the Major examination in 1891.

MURDOCH.—At "Claremont," Denton Road, Eastbourne, on January 22, Mr. John Murdoch, aged seventy. Mr. Murdoch was the eldest son of the late Mr. George Murdoch, of Murdoch Brothers, chemists, Glasgow. He came to London as a young man, and was first with C. R. Harker, Stagg & Morgan, Ltd. After some years he was appointed chemical and drug buyer to Laughland, MacKay & Baker. Later he received an appointment as export manager to S. Maw, Son & Thompson, Aldersgate Street, who sent him on a business journey to

South Africa. Commencing on his own account in 1891, Mr. Murdoch carried on business (as John Murdoch & Co.) for a long period at Sussex House, Leadenhall Street, London, E.C.3, and subsequently at 7 Union Court, Old Broad Street, E.C.2, as a general exporter. He retired on March 31, 1924. Mr. Murdoch was well-known in drug and chemical trade circles, and was of a most hospitable and generous nature. The funeral took place on January 27 at West Hampstead Cemetery; it was attended by friends from Eastbourne and a large number of London friends. Mr. Murdoch is survived by a younger brother and a sister.

RIGBY.—At his residence, Naymore, Seaford Road, Lytham, on January 26, Mr. Herbert Rigby, chairman of Rigby, Taylor, Ltd., oil refiners, Bolton, and a director of Wigglesworth, Ltd., manufacturing chemists, Westhoughton, aged sixty-one.

SMALLEY.—At Rochdale, on January 20, Mr. John Robert Smalley, chemist and druggist, aged sixty-two.

WALTON.—At Hull, on January 16, Mr. William Henry Walton, chemist and druggist, aged eighty-one.

## Personalities

MR. F. E. BURDETT, chemist and druggist (M. Roger-son & Son, Ltd., chemists), Bradford, has been elected vice-president of the local chamber of trade.

THE permanent address of Mr. G. S. V. Wills, Ph.C. (founder of the Westminster College of Pharmacy), is 5 Lessar Avenue, South Side, Clapham Common, London, S.W.4.

DR. F. J. WALDO, H.M. coroner for the City of London and Southwark, is retiring after more than thirty years' service. Dr. Waldo, who is in his eightieth year, has held several inquests in connection with fires—in which respect his appointment is unique.

MR. H. P. KNOWLES, chemist and druggist, who is retiring from the post of dispenser to the West Riding Mental Hospital at Wakefield, after thirty-seven years' service, has been succeeded by Mr. Arthur N. Stephenson, chemist and druggist, senior assistant dispenser at the General Hospital, Birmingham.

MR. EDWARD A. SMEE, formerly managing director of Sparks, White & Co., Ltd., London, E.1, has formed, in conjunction with his son, Mr. Frank Smee, a limited company under the style of E. A. Smee & Son, Ltd., to deal in crude drugs, spices, essential oils, etc. Premises have been acquired at 1 Upper Russell Street, Bermondsey, London, S.E.1. Mr. Smee, sen., who is managing director, is well known throughout the drug and allied trades, while his son, also a director, enters the business with practical experience of French perfumers' raw materials.

## Wills

MR. JOSIAH HYDE, Wednesfield House, Wednesfield, near Wolverhampton, Staffs, chemist and druggist, who died on June 10 last, aged eighty-nine, left estate of the gross value of £24,198, with net personalty £21,723.

MR. CHARLES GEORGE YATES, 9 Upper Hamilton Road, Brighton, Sussex, chemist and druggist, a member of the Borough Council since 1903, who died on July 30 last, left estate of the gross value of £3,345, with net personalty £514.

MR. WILLIAM EDWARDS, of Northcourt, Redington Gardens, Hampstead, N.W., and Moxley, Holmbury St. Mary, Surrey, senior partner of William Edwards & Sons, druggists' sundriesmen, 14-18 Nile Street, City Road, London, E.C., died on November 13 last, leaving estate of the value of £100,595, with net personalty £94,449.



# Trade Notes

OXYMEL SCILLÆ is advertised in this issue by Baiss Brothers & Co., Ltd., Grange Works, London, S.E.1.

**BLOCKMALT.**—The accompanying illustration is a photograph of a cut-out supplied by The Blockmalt Co.,



Ltd., Slough, Bucks, to call attention to their confectionery. Blockmalt contains a proportion of malt sugar, is easily digested and nutritive. It is attractively packed in  $\frac{1}{4}$  lb.,  $\frac{1}{2}$  lb. and 1 lb. tins; there is a considerable variety of attractive display material available, and an introductory offer is being made.

THOMAS TOURLE & Co., 149 Strand, London, W.C.2, invite inquiries regarding designs and estimates for showcards, cut-outs, and printing work of this nature.

EDWARD HACK, 69 Farringdon Road, London, E.C.1, is now offering a glass-topped showcase (10 in. by 9 in. by 1 $\frac{1}{2}$  in.) to certain purchasers of Anti-Thrax shaving brushes.

THE BRITISH XYLONITE CO., LTD., Hale End, London, E.4, have issued an excellently illustrated catalogue of xylonite articles, made in England from English materials. Chemists will find a copy of the list most useful.

TOKALON, LTD., Chase Road, London, N.W.10, are making a bonus offer (until February 28) in connection with their well-known toilet products. Further particulars and a special order form are printed in the company's advertisement.

A USEFUL pamphlet dealing with the iodine feeding of farm animals has been published by Nitrate Corporation of Chile, Ltd., Stone House, Bishopsgate, London, E.C.2, a copy of which will be sent post free to any of our subscribers who are interested in this subject.

GROUT & Co., LTD., 35 Wood Street, London, E.C.2, are sending to secretaries of sports clubs a mounted poster (21 in. by 15 in.) illustrating the use of Vic sports crêpe bandages for the support of injured structures arising from athletics. The text is written by Mr. Wilfred Smith, injury consultant to the A.A.A.

**LIVER FLUKE IN SHEEP.**—In view of the reports of a serious increase this year of fluke disease in sheep, particularly in the North, Midlands and West, chemists no doubt will receive inquiries for remedies. Allen & Hanburys, Ltd., Bethnal Green, London, E.2, are offering supplies of leaflets describing the treatment of the disease with Plough brand carbon tetrachloride capsules.

**KEST BRAND TABLETS** are now being distributed by Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1; a special introductory offer is advertised in this issue. The tablets, stated to consist of Epsom salts with a percentage of phenolphthalein, are packed in neat display boxes of one dozen bottles. Attractive showcards, one of which is illustrated herewith, are available.



COATES & COOPER, LTD., 94 Clerkenwell Road, London, E.C.1, have been appointed distributing agents for Catalgan, a preparation used in the treatment of toxæmia in tuberculosis. Further particulars and medical literature dealing with the product will be sent to chemists on request.

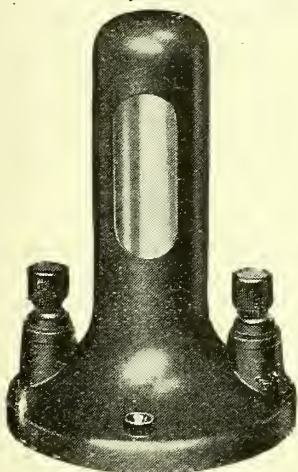


WE described in the C. & D., January 23 (p. 87), some of the attractive Easter soap novelties of Charles Midgley, Ltd., 325 City Road, Manchester. The above illustration is a photograph of a selection of these products which should appeal to customers of all ages.

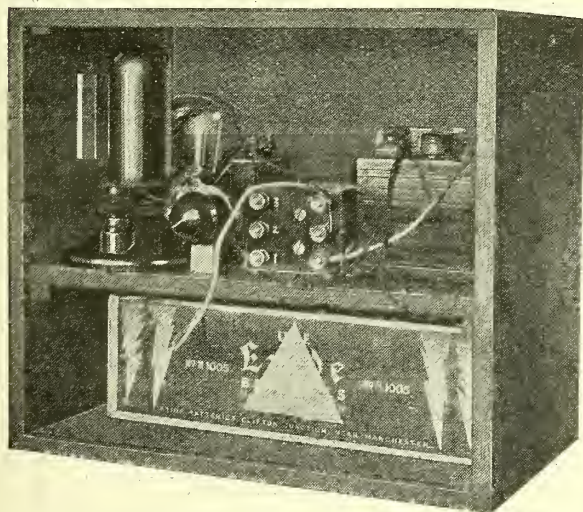


**JOHNSON'S BABY POWDER.**—Johnson & Johnson, Ltd., Slough, Bucks, announce that beginning on March 1, and continuing throughout the year, thirteen to the dozen will be given with every order for three dozen, six dozen, one gross and two gross tins of Johnson's Baby Powder. The usual quantity prices will still apply. These new terms are a complete departure from previous policy, and they cancel the window display fees which have been allowed in the past.

Most of our subscribers will remember the interest aroused by use of invisible rays to protect the Shah of Persia's jewels at the Exhibition held in Burlington



House, London, a year ago. There has now been placed on the market by Audiovisor, Ltd., 28 Little Russell Street, London, W.C., an inexpensive outfit which could be employed for various purposes by chemists. Raycraft apparatus, as it is called, can be arranged for advertising display and for giving a warning. For instance, it can be used purely as a burglar alarm or it may be put across the doorway to the shop to indicate the entrance of a customer; it may also be used as an invisible ray along the counter to prevent theft of small articles, etc. As a display medium the Raycraft Bridge can be installed in a window so that the public, from outside the shop, can operate any illuminated sign or mechanical device within the window by simply covering an aperture with their hand. It will remain in action only for the time that the aperture is covered. Similarly, the public in the same manner can operate the actual lighting of the window or con-



trol a spot light focussed on some particular article to which it is specially desired to draw attention. Alternatively, the apparatus may be used inside the shop so that the customer entering or standing by the counter illuminates some device which attracts his or her attention. One application in the advertising side which merits attention of C. & D. readers is being handled by Tray-Ads, Ltd., 18 Charing Cross Road, London, W.C.2, who are using it in conjunction with mirrors. These normally appear to be ordinary mirrors, but when a person stands in front and so breaks a ray of light falling on a Raycraft Bridge, the mirror becomes illuminated and a picture or word advertisement of some particular product appears upon it.

**SCIENTIFIC GLASSWARE**, including sintered glass, membrane and ultra filters are obtainable from L. Wenborn, Nelson Place, City Road, London, N.1.

**BRYLCREEM.**—The County Perfumery Co., Bradford Street, Birmingham, inform us that the Brylcreem window dressing and slogan competitions (C. & D., January 9, p. 37) have resulted in a gratifying increase in the demand for this elegant toilet requisite. The competitions do not close until the end of the current month, and any chemist who has not received particulars of these events should write for them.

J. G. MOUSON & Co. inform us that, owing to the difficulties which exist in importing goods, Mr. W. H. Thomas, after mutual friendly arrangements, has discontinued representation for England. Messrs. Mouson have made arrangements with Sangers, Ltd., 42a Hampstead Road, London, N.W.1, and Osborne, Garrett & Co., Ltd., 51 Frith Street, London, W.1, to carry stocks of their various lines.

**PRICES OF TOOTH BRUSHES.**—The English Tooth Brush Manufacturers' Association, 49 Lockner Road, London, N.1, has issued a notice regarding "the inevitable increase in the price of tooth brushes and shaving brushes, which will ensue as the result of the depreciation of sterling. The principal raw materials of this industry, which consist of bristles and badger hair have to be imported, as they cannot be produced in this country. The result has been an increase in the cost of these materials, amounting in some cases to as much as 40 per cent. Manufacturers who held stocks of raw materials have in the present crisis given the trade the full benefit of such stocks as they held, and have refrained from making advances, except in cases of absolute necessity. These stocks are now seriously depleted, and as and when they are replenished advances in prices must inevitably take place, although manufacturers may be able to mitigate the full extent of the severity of such increases if by a restriction of the importation of foreign brushes they are able to keep their works going to the fullest extent, and so reduce their overhead expenses."

## Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1932, p. 339.

(From "The Trade Marks Journal," January 27, 1932.)

- "CREOLINA"; for chemicals (2 and 3). By W. Pearson, Ltd., 61 Mark Lane, London, E.C.3. 528,242/243. (Associated.)
- "ABA-COLIN"; for medicinal chemicals (3). By H. R. Napp, Ltd., 3 & 4 Clement's Inn, Kingsway, London, W.C.2. 525,061.
- "GORDOLAX"; for laxative medicines (3). By H. Gordon (London), Ltd., 8 City Road, Finsbury Square, London, E.C.1. 528,119.
- "KAL-DESMIO"; for all goods (11). By Davis & Geck, Inc., 211 Duffield Street, Brooklyn, New York, U.S.A. 528,193.
- "CASTELLO JUICE" on oblong label device; for liquorice confectionery (42). By Robinson & Wordsworth (1925), Ltd., Wordsworth's Yard, Beaufair, Pontefract, Yorkshire. B522,982.
- "BEEFEX" on hat worn by child with boxing gloves; for food substances (42). By Beefex, Ltd., 19/20 West Smithfield, London, E.C.1. 528,151. (Associated.)
- "MANICASE"; for perfumery, etc. (48). By R. K. C. Samuels, Rowanhurst, Moss Lane, Ashton-on-Mersey. 528,080.
- "MILCHA"; for perfumery, etc. (48). By Richfield, Ltd., 23 Cheapside, Bradford, Yorkshire. 528,169. (Associated.)
- "CERTOFIX" over picture of elephant and black man with tube; for adhesives (50). By British Isinglass Co., Ltd., 39 Hope Street, Grimsby. 527,846. (Associated.)





*John Bell, Hills & Lucas Ltd.*

**TRIAD BRAND**

**EXTRACT OF MALT & COD LIVER OIL**  
with CHERRY PARRISH'S FOOD

*Send for sample & prices*

Oxford Works, Tower Bridge Road, London, S.E.1

## ANTIBACSYN

**FOR COLDS, GONORRHEA**

All Microbic Injections and Septic Conditions

—also—

**ANTIMALIGNYN**  
**FOR INOPERABLE CANCER**

Sufficient for 1 Month's Treatment.

£2 2 0

**ANTIBODY PRODUCTS, LTD.**

Bushey Grove Road, WATFORD.

Telephone: 4708 WATFORD.

6d. PEN OX

**PURITAN SALTS** Trade Mark Rgd.

A new line advertised with "Nostroline"

ORDER THROUGH THE WHOLESALE

MATTHEWS LABORATORIES LTD., Clifton, Bristol.

## PACKED GOODS

of the highest quality

*Samples and Quotations on Request*

**The London Essence Co., Ltd.**

(ESTABLISHED 1896)

MANUFACTURING CHEMISTS AND DISTILLERS  
OF ESSENTIAL OILS

GLENGALL ROAD, PECKHAM, LONDON, S.E.15

'Phone: New Cross 4110 (3 Lines). 'Grams: "Vanillin, Kent, London."

## JOCIGARES

FOR

## ASTHMA

Box of 35, 2s. 6d., less 25%

Wilcox, Jozeau & Co.

(Foreign Chemists) Ltd.

15 Great St. Andrew Street, London, W.C.2

**EXTRA  
RECTIFIED**

## ALCOHOL FOR PERFUMERY

Write for Prices

**JAS. BURROUGH Ltd.** 1 Cale Distillery,  
LAMBETH, S.E.11

## "The Chemist and Druggist" COMPACT LIBRARY

### PHARMACEUTICAL FORMULAS (P.F., Vol. 1).

The tenth edition of this, the most complete pharmaceutical formulary in the English language, comprises (1) selected formulas from the British, United States, and several other pharmacopoeias; (2) unofficial formulas from hospital pharmacopoeias and other sources, British, colonial and foreign; (3) known, admitted and approved remedies (218 pages) taken from previous editions of "Pharmaceutical Formulas" and from THE CHEMIST AND DRUGGIST Diaries; (4) concise descriptions of practical methods of manufacture, adapted to the retail shop; (5) an Appendix comprising laws and regulations governing the sale of poisons, the hours of closing, medicine-stamp duty, the use of spirits and many other data —e.g., a solubility table and chart. The volume contains 1146 pages. Price 15s., by post 15s. 9d.

### THE ART OF DISPENSING.

The tenth edition of this well-known work is now ready. The book has been thoroughly revised and considerably improved, while maintaining the features which have made it so popular with several generations of students. It is kept by chemists in the dispensary for ready reference in cases of difficulties arising in the course of the day's work. Price 8s., by post 8s. 6d.

### VETERINARY COUNTER PRACTICE.

Chemists interested in veterinary practice will find it indispensable, as it deals with the ailments of horses, cattle, sheep, pigs, dogs, and poultry, and the remedies that can be supplied. New edition 1930 (Eighth) brings this book thoroughly up to date. Price 7s. 6d. net, by post 8s.

### PHARMACEUTICAL BOTANY.

An attractively written book dealing with the plants mentioned in the examination syllabus of the various pharmaceutical examining bodies. Botanical terms which at first sight are forbidding in appearance are explained so that the meaning is made crystal clear. A useful gift for apprentices and assistants who have not passed the qualifying examinations. Price 5s., by post 5s. 4d.

### THE PHOTOGRAPHIC CHEMIST.

This is a concise guide to chemists commencing and carrying on a photographic department. The book is a reprint of the treatise in THE CHEMIST AND DRUGGIST DIARY, 1926, with additional chapters and formulas. Price 3s. 6d., by post 3s. 8d.

### THE "C.&D." PRICE LIST FORMULARY, "P.L.F."

All users of the C. & D. Retail and Dispensing Price List require a copy of this Formulary. It brings together the formulas for unofficial preparations, the prices of which are quoted in the Price List. It is a choice collection of good formulas for articles in every day request by the public. Price 2s. 6d., post free.

**Published by "The Chemist and Druggist"**

28 Essex Street, LONDON, W.C.2

Branch Offices: Manchester and Sheffield, England;  
Glasgow, Scotland; Melbourne and Sydney,  
Australia; Auckland, New Zealand.

## Information Department

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

L/261. Banaso tablets	T/22. Lactic acid jelly
O/191. British manufacturers of perfume sprays for export to Germany	H/32. Moon (for shaving) present address
B/22. Eonian foot supports	S/151. Perjean or Berjean sulphur baths
K/12. Fax toilet preparations	A/32. Picrammon
L/22. Fermentol (London source)	K/22. Sanos tooth paste
H/251. Kobena nerve tablets	T/281. Sunray bath salts
	T/32. Thyrol tablets
	S/32. Tripoline



# THE CHEMIST AND DRUGGIST

VOL. CXVI FEBRUARY 6, 1932 NO. 2713

## Known, Admitted and Approved Remedies

THE question of what are known, admitted and approved remedies entitled as such to exemption from medicine-stamp duty has entered on a quite unexpected phase, following on a letter from the Commissioners of Customs and Excise which runs:—

Custom House,  
Lower Thames Street,  
London, E.C.3.  
January 29, 1932.

Sir,—In reply to your letter of the 15th instant, regarding the "known, admitted and approved" remedies exemption, I am directed by the Commissioners of Customs and Excise to inform you that no alteration has been made in the conditions conveyed to you in their letter of March 1, 1930, under which they are prepared to recognise claims to the exemption, any alteration that might be deemed necessary would be duly communicated to the interests affected.

I am, Sir,  
Your obedient Servant,  
(Signed) C. J. FLYNN.

The Editor,  
THE CHEMIST AND DRUGGIST,  
28, Essex Street, Strand, W.C.2.

It may be as well to remind our readers that the conditions of exemption referred to in the letter as still insisted upon are:—(1) The disclosure of the complete formula upon all labels, cartons, or other containers of the article; (2) a statement of equal publicity that no proprietary rights are claimed in the preparation of the medicine; and (3) that the required statements on the labels must be legible and conspicuous.

## Change of Administrative Policy

The terms of the Commissioners' letters make it superfluous to emphasise the fact that they disclose a complete change of policy on the part of the authorities. That this should be persisted in after the recent decision of Mr. Justice Rowlatt, in the case of the Attorney General v. Lewis & Burrows, Ltd., is what is chiefly calculated to provoke surprise. Following on the case of Farmer v. Glyn-Jones, the Revenue authorities issued a memorandum in which, in accordance with the decision in that case, they declared their intention to admit to the category of "known, admitted and approved" a medicine the constitution of which was indicated by reference to a formula in a recognised book of formulas. The Commissioners' letter of March 1 1930, notified chemists that the arrangement followed for more than a quarter of a century was to hold no longer. Then comes the judgment of Mr. Justice Rowlatt in the Lewis & Burrows case, which the Commissioners think themselves authorised to disregard. Chemists may well feel puzzled to know where they stand in the matter.

## Inquest or Inquiry?

THE Birmingham inquest which we report in this issue provides abundant material for reflection. We have many times had occasion to express regret that the Legislature has not thought fit to rearrange the conditions under which inquests are conducted so as to bring them within the rules which are applicable to all judicial inquiries. The gentle reminder that Mr. Marshall Freeman, counsel appearing for the chemists concerned in the case, gave the coroner that this was an inquest—not a criminal proceeding—and therefore he (counsel) was not allowed to call evidence goes to the root of the objections often raised to this method of procedure. At an inquest the coroner himself calls all the evidence; and though a person whose reputation may be at stake is allowed to put questions to witnesses, he may not call witnesses on his own behalf to contradict what is said. An inquest, in our opinion, should be presided over by a trained lawyer; the strict rules of evidence should be followed; and if any reflections are made upon any party concerned, that party's advocate should have the right to call rebutting evidence and to address the jury upon it. In the Birmingham case it is quite clear, upon reading the report, that as no *post-mortem* examination had at first been made, the coroner assumed that the cause of death was poisoning by allonal. Apparently the object of summoning the chemists' managers and of fetching the secretary of the Pharmaceutical Society down from London to give evidence in the case was to hold an inquiry into the conduct of the chemists who supplied allonal. Fortunately, the chemist was effectively represented by counsel who understood the subject-matter in issue; and although the jury expressed themselves at large in their verdict, it is significant that the coroner did not feel called upon to administer the suggested censure.

## A Safeguard for the Chemist

It always strikes us in a case like this that the British chemist—who is the first to be the butt of accusations of negligence—has not been provided with safeguards wherewith to protect himself like his Continental brother pharmacist. He is in the position of being shot at by coroners, doctors and juries even when he is complying strictly with the requirements of the law. There are no regulations here, such as exist in foreign countries, limiting the sale of certain specially mentioned articles (apart from "dangerous" drugs) to persons who produce medical prescriptions and requiring a fresh prescription to be produced for each supply. That principle has obvious advantages for the chemist. In the case now under review there seems to have been an idea on the part of both coroner and jury that it is the duty of the chemist to refer to the prescriber in cases where no legal requirement to do so exists, instead of using his own discretion. If the drug in question were one appearing in a list of drugs which, though supplied on a prescription once may not be supplied by himself or any other dispenser again without a new or endorsed prescrip-

tion, then the chemist would be in a strong position; and if he failed to observe his duty he would be deserving of punishment. (This type of regulation is foreshadowed in Section 21 (b) (ii) of the Pharmacy and Poisons Bill.) But a chemist ought not to be subject to censure for not observing a regulation which does not exist. The idea that medical men are to be searched out and questioned every time a chemist is called upon to repeat a prescription containing something in Part II of the Schedule is an utterly impracticable proposition.

### Finding the Range

In the course of a conversation with a merchant distributor we learned that, in his own words, he had "bought more British-made pharmaceutical products during the past six months than during the previous ten years"; further, that he had purchased his bulk quantities at prices which allowed a sufficient margin for re-sale at competitive prices. We believe this co-operation between manufacturer and merchant to be not only sound policy for the former, but to be also the system by which chemical and allied merchandise can be most economically distributed to the consumer. Particularly is this the case where the manufacturer concerned produces a limited range of articles. There is no doubt that hitherto the admittedly excellent and old-established merchanting machinery, with its widespread connections and goodwill, drew mostly upon foreign sources for its supplies. Now that rates of exchange and other economic factors, together with import restrictions already in operation and to come, have to no little extent shut out from this market foreign competition, it would be folly on the part of the manufacturer, even if he has some sort of selling organisation, to refuse to use the facilities of the merchant. It would probably be to their ultimate advantage if the manufacturers of chemicals in this country devoted the whole of their financial strength and industrial activities to the job of producing; the capital needed to run an adequately staffed distributing side to the business might well be used in extending their output and range of products. At the moment and very probably for some fair period ahead, the manufacturer has a unique opportunity to build up and consolidate his position in the home market and to gain a footing in markets overseas. There is more likelihood of this very desirable object being achieved if the two sections of the industry pull their weight together, each specialising and aiming at the highest efficiency in their own particular but quite dissimilar spheres. This movement of co-operation and recognition of each other's usefulness has commenced quite voluntarily, and its continuance can be only in the best interests of the industry and the trade of the country generally. By all means should the manufacturer continue to sell direct to those consumers whose trade he has been in the habit of securing; but there is a big field of business, both at home and overseas, which he has never touched and which, we believe, he will find difficult to cover without the aid of the commercial interests that developed it.

## Corner for Students

Conducted by Leonard Dobbin, Ph.D.

### QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopoeia, or any of the commoner radicals not mentioned in that work, and is to

be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, February 9, on which day the samples will be posted. Students' reports will be received up to Saturday, February 20. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fourth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who have not passed in Chemistry in the Preliminary Scientific examination in Great Britain, in the Licence examination in the Irish Free State, or in Chemistry, Part I, in Northern Ireland, which fact *must be attested on their reports*. They will not be awarded to former winners of tournament prizes.

## "C. & D." Retail Price List

THE index price of drugs for the first month in the year shows a slight fall, the figure being 131.6, against 132.3 in December. This alteration is due mainly to the decrease in the price of bismuth salts. Generally, prices have been well maintained; and the rise or fall—apart from bismuth—is usually so small that it cannot be converted easily into a retail selling price. In surgical dressings there is no change, the index of wholesale cost being 135.0. The important alterations in retail and dispensing prices are:—

Cost			Selling Price			
			16 oz.	4 oz.	1 oz.	1 dr.
d.	per		s. d.	s. d.	s. d.	s. d.
114	lb.	Bismuthi carbonas ..	—	4 2	1 2	0 2
13	oz.	Bismuthi citras ..	—	—	1 11	0 4
23	oz.	Bismuthi et ammon. citras ..	—	—	3 5	0 6
25	oz.	Bismuthi hydroxidum ..	—	—	3 8	0 7
38	oz.	Bismuthi iodidum (oxy.) ..	—	—	5 7	0 10
25	oz.	Bismuthi lactas ..	—	—	3 8	0 7
10	oz.	Bismuthi nitras cryst. ..	—	—	1 6	0 3
11	oz.	Bismuthi oleas ..	—	—	1 8	0 3
21	oz.	Bismuthi oxidum ..	—	—	3 1	0 6
20	oz.	Bismuthi oxychloridum ..	—	—	2 11	0 5
22	oz.	Bismuthi oxychlor. puriss. ..	—	—	3 3	0 6
44	oz.	Bismuthi oxyiodogallas ..	—	—	6 7	1 0
32	oz.	Bismuthi phenas ..	—	—	4 8	0 8
12	oz.	Bismuthi salicylas ..	—	—	1 9	0 3
13	oz.	Bismuthi subgallas ..	—	—	1 11	0 4
105	lb.	Bismuthi subnitras ..	—	3 10	1 1	0 2
86	lb.	Ess. zingiberis ..	9 9	2 10	0 9	0 2
84	lb.	Ext.hamamelidis liquidum ..	10 6	3 0	0 10	0 2
26	lb.	Ferri alum. pur. ..	3 3	1 0	0 4	—
18	oz.	Ferri valerianas ..	—	—	2 8	0 5
50	lb.	Glyc. pepsini ..	—	2 5	0 8	0 2
17	oz.	Guaiaacol. ..	—	—	2 6	0 5
30	oz.	Guaiaacol. benzoas ..	—	—	4 5	0 8
15	oz.	Guaiaacol. carbonas ..	—	—	2 3	0 4
15	lb.	Lin. calcis ..	1 10	0 7	0 2	—
348	lb.	Potassii iodidum ..	—	12 5	3 6	0 6
18	lb.	Potassii tartras acidus ..	2 3	0 8	0 3	—
15	lb.	Potassii tartras acidus 92% ..	—	12 3	—	—
69	oz.	Quinidinæ sulph. gr. x ..	0 4	—	—	1 5
86	lb.	Tr. zingiberis fort. P.B.'85 ..	—	2 10	0 9	0 2



# Pharmaceutical Society of Great Britain

## Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, W.C.1, on February 3. Mr. A. R. Melhuish (president) in the chair. There was a full attendance.

### TUESDAY'S PROCEEDINGS

Among the matters dealt with by the Council on February 2 were the following:—

A letter was received from the Bedfordshire Branch proposing that the Society assist unemployed pharmacists by publishing their names and addresses weekly in "The Pharmaceutical Journal." The letter contained an outline of the proposed scheme. The opinion was expressed that the numbers of unemployed pharmacists would make the scheme impracticable in the precise form suggested. The letter was remitted to the Organisation Committee to consider further.

A letter was received from the University of London containing the resolution of the Court communicating to the Senate that they are satisfied that the appointment of the School of Pharmacy and the Pharmacological Laboratories as a School of the University is justified on financial grounds.

The secretary reported that he had attended on behalf of the Society at the hearing of the Society's opposition to the granting of the trade mark "First Aid" for a soap. The decision of the registrar had been to allow the registration of the mark on the ground that no evidence was forthcoming that any other soap but the applicant's soap was asked for under the name of First Aid.

The president reported that Sir Henry Dale had accepted an invitation to deliver the Harrison memorial lecture in the autumn.

### DEATHS

On the resumption of the proceedings on February 3, the PRESIDENT made sympathetic reference to a number of deaths which had occurred since the last meeting of the Council. His own native county of Devon, in particular, he said, had suffered serious losses. Those who had passed away included Mr. W. J. Shepperd, of North Devon, who would be well known to many members on account of his having attended Conferences. He was a man of lovable personality, and always showed a spirit of great kindness. He was the chairman of the North Devon Branch. Another member whose passing was to be regretted was Mr. John Taylor, J.P., a former president of the Torquay and District Pharmacists' Association, and at one time Mayor of Torquay. Finally the president spoke in terms of eulogy of Mr. Furnivall, a former president of the Cardiff Association, whose loss would be greatly felt by pharmacy.

Mr. ROWSELL associated himself with what the president had said regarding Devon. Mr. Shepperd was a man whose outstanding personality would be noticed in any gathering, and a man of great character. Not only was he an excellent pharmacist, but he also took great interest in archaeology, and was an active member of the Devonshire Association. Mr. Taylor, too, was an alderman of the Devon County Council. Two months ago they had also lost Mr. Eric Lemon, of Exeter.

At the suggestion of the PRESIDENT, the Council agreed that letters of sympathy should be sent to the relatives in each case.

### M.B.E. CONGRATULATIONS

The PRESIDENT next mentioned that at the last meeting, when paying tributes to those who had been honoured by the King in the New Year list, he omitted to refer to Mr. John Raffan. Had he been described as a pharmacist, that omission would not have occurred. At all events he (the president) hastened to repair the

omission, and he was sure the Council would associate themselves with him in congratulating Mr. Raffan.

### ELECTIONS AND RESTORATIONS

Ninety persons were elected as members of the Society and seventy-six as student-associates. Seventeen persons were restored to the Register, and a number to membership of the Society. The registrar reported that 156 persons had been registered as apprentices or students.

### RETIRING MEMBERS

The secretary reported that the following members of the Council retire in May next:—Bilson, Frederic Eastall; Hines, Frank Gladstone; Humphrey, John Thurlbeck; Jenkin, Arthur Henry; Melhuish, Andrew Ralph; Rowsell, Philip Foale; Simmons, Edward Harry.

### REGISTRAR'S REPORT

The registrar submitted his report for the year 1931. The following summary embodies the chief features:—

The subscribers to the Society are 991 life compounders, against 995 in 1930; 14,396 annual subscribers, against 14,058; and 958 student-associates, against 1,099. The number of apprentices or students registered is 1,282 (1,151 in 1930). An analysis of the examinations in London for the year shows the following:—Pharmaceutical Chemist, 54 candidates, of whom 24 were successful (in 1930 the respective numbers were 38 and 14); Qualifying, 2,811, of whom 541 passed (in 1930 the corresponding numbers were 2,803 and 556). In Edinburgh there were 26 candidates for the Pharmaceutical Chemist, of whom 11 were successful (in 1930 there was one successful candidate out of 20 entrants); for the Qualifying, 1,377 candidates, of whom 373 passed (in 1930 the numbers were 1,305 and 321 respectively). The number of pharmaceutical chemists on the Registers on December 31, 1931, was 1,805, and of chemists and druggists 22,054, a total of 23,859. (In 1930 the respective numbers were 1,815, 21,441, and 23,256.) The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 1,480 names (1,405 in 1930). In 170 cases of alleged infringement of the Pharmacy Acts proceedings were instituted (232 in 1930). The number of shops investigated with a view to ascertaining whether a certificate of qualification was exhibited was 7,435 (7,386 in 1930), and 3,643 "drug stores and other shops" were also visited (3,910 in 1930).

Mr. ROWSELL said it was rather unfortunate that there had been a decrease in the number of student-associates.

### REPORT OF GOVERNMENT VISITOR ON SCOTTISH EXAMINATIONS

The report of Professor Ralph Stockman states that during 1931 written examinations were held at Edinburgh, Glasgow, Aberdeen and Dundee, and practical examinations at Edinburgh.

(a) *Preliminary Scientific Examination*.—After giving an analysis of the results in the Preliminary Scientific examination, the report continues:—

A "pass" of 30 per cent., with 70 per cent. of "failed" and "referred," cannot be considered a highly satisfactory state of affairs. To bring the results into line with those of other somewhat similar examinations the figures should be reversed. The examination is very well conducted and not unduly difficult; many of the candidates pass it easily, and a few even brilliantly. The fault must lie either with the candidates or with the teaching. It is possible that many of the failures are due to deficiency in general school education, which debars them from taking advantage of the instruction offered in science, or the standard of teach-

ing in some of the recognised schools may not be up to the standard of the examination. Possibly both causes are at work, but it is a matter which should be capable of being inquired into and remedied. During the past two years the standard of teaching in physics has been greatly improved, with some corresponding improvement in the quality of the examination papers.

(b) *Chemist and Druggist Qualifying Examination*.—An analysis of the results in the Chemist and Druggist Qualifying examination is followed by the comment that 596 candidates were examined, and of these 198 or 33.2 per cent. failed in pharmacy, mostly in the dispensing of ordinary prescriptions; ninety-eight in pharmacognosy; 137 in pharmaceutical chemistry; and sixty-four in forensic pharmacy. A few of the candidates who failed in pharmacy had little knowledge, and one no knowledge whatever, of the Latin terms used in prescribing.

(c) *Pharmaceutical Chemist Qualifying Examination*.—An analysis of results is given, and Professor Stockman remarks:—

I again venture to express the opinion that the number of written questions and the time devoted to answering them is unnecessarily great and might be lessened without impairing the high standard and searching nature of the examination. I have again to express my high appreciation of the excellence of the arrangements made for conducting the examination and of the courtesy and fairness shown by the examiners.

#### EXAMINER APPOINTED

The Council approved of the appointment of Professor E. B. Ludlam, of Edinburgh, as a member of the Board of Examiners for Scotland, in place of Professor Kendal, who, it was explained, is to be absent owing to an engagement to lecture in America.

#### PHARMACOLOGICAL LABORATORIES

The annual report of the work of the Pharmacological Laboratories was presented.

The PRESIDENT, commenting on the papers mentioned in the report, said he thought the work of the Laboratories was reflecting great credit on the Society.

#### BENEVOLENT FUND COMMITTEE

The report of the Benevolent Fund Committee showed that eight applications had been received and grants made ranging from £5 to £26. The quarterly summary of the Committee's grants gave the total number as 43 and the total disbursements £952. During the same period the receipts amounted to £2,540 11s. 4d. The following special contributions were acknowledged:—H. J. Kluge, £5 5s.; Portsmouth and District Pharmaceutical Association, £5 5s.; J. G. McMillan, £5 5s.; Sir Harry Hague, £5 5s.; Manchester University Pharmacy Students' Association, £5; Cardiff Branch, £4 10s. 3d.; Wigan Pharmaceutical Committee, £3 5s.; Preston and District Pharmacists' Association, £3 5s.; C. B. Harrison, £3 3s.; London Chemists' Golfing Society, £3 3s.; W. K. Somerton, £2 10s.; Williams & Peters, £1 19s.; Leicester Branch, £1 12s. 6d.; W. H. Dixon & Sons, Ltd., £1 5s.; H. H. Cocking, £1 1s. 6d.; H. E. Herington, 10s. 6d.; R. C. Tween, 10s. 6d. *Legacy*.—W. A. Attree, £200 *Orphan Fund*.—Sir Harry Hague, £5 5s.; Portsmouth and District Pharmaceutical Association, £2 2s.

Mr. BEARDSLEY commented on the gratifying character of the list. The report was adopted.

#### WAR AUXILIARY BENEVOLENT FUND

This Committee reported that since the last meeting it had received six applications, and grants had been made ranging from £13 to £26. The quarterly statement showed that fifteen grants, amounting to £313 4s., had been made. The report was adopted.

#### ESTABLISHMENT COMMITTEE

The report of this Committee embodied a report by the librarian on the year's work, and this was read by Mr. JENKIN.

The report was adopted.

#### FINANCE COMMITTEE

The financial statement showed that receipts since the last meeting, including a balance of £414 4s. 6d., amounted to £9,409 8s. 10d., comprising the following items:—Subscriptions, £6,829 4s.; registration fees, £287 14s.; examination fees, £8 8s.; certificates of qualification, £1 1s.; Pharmacological Laboratories, £151 12s.; School of Pharmacy, £226 4s. 8d.; penalties, £83 9s. 9d.; interest on investments, £28 17s. 3d.; rentals, £255; "Pharmaceutical Journal," advertisements, etc., £867 2s. 6d.; "Quarterly Journal," £63 3s.; "Pharmaceutical Pocket Book," £35 8s. 8d.; register, £2 9s. 3d.; examination papers, £4 10s. 4d.; Pharmaceutical Press publications, £18 2s. 5d.; B.P. Codex, 1923, £80 2s. 3d.; forensic pharmacy, £16 13s. 1d.; F.S.S.U. contributions, £28 10s. 7d.; sundries, £7 11s. 7d. Payments ordered at the last meeting amounted to £6,380 16s. 9d., refund of loan from Benevolent Fund (on account) to £500, and £2,500 had been transferred to deposit account, leaving a balance of £28 2s. 1d. The balances on the other accounts were:—Benevolent Fund (current account), £17 14s.; Benevolent Fund (donation account), £41 9s. 7d.; War Auxiliary Benevolent Fund, £21 9s. 3d.; Orphan Fund, £86 2s. 10d. The report recommended that accounts amounting to £7,263 18s. 2d. be paid, and that the action of the secretary in making the payments, amounting to £1,190 17s. 10d., be approved. The report was adopted.

#### LAW COMMITTEE

The report of the Law Committee, presented by Mr. MARNs, recommended that the Society appeal against the judgment given in the Aylesbury County Court on January 8. In England and Wales, since the last report, 802 shops have been visited; of these 449 were chemists' shops. In all chemists' shops a certificate was exhibited. At fifteen of the remaining shops certain infringements of the Pharmacy Acts were reported. In Scotland, since the last report, 102 chemists' shops have been visited. Certificates were exhibited in all.

This was all the public business.

### Evening Meeting in Edinburgh

THE third meeting of the session was held at 36 York Place, Edinburgh, on January 22, Mr. J. B. McVittae (chairman of the North British Executive) presiding.

The first communication was by Mr. Eric Knott, Ph.C., F.C.S., on

#### The Solubility of Iodine in Acetic Ether

##### [ABSTRACT]

IODINE is prescribed with acetic ether and glycerin as a throat paint. This note deals with a point raised as to the solubility of iodine in acetic ether in connection with the following prescription:—*Iodi resub.*, gr. vi; *æther. acetic.*, iii; *glycerin.* ad 3i. One part of iodine was mixed with one-fourth part of potassium iodide, the iodine carefully sublimed and the sublimate cooled in a desiccator. The acetic ether was also examined. An excess quantity of the purified iodine was macerated in acetic ether for seven days at a temperature of 10° C. to 12° C., the mixture being frequently shaken. On account of the volatility of both solvent and solute the only methods of estimating the iodine strength of the solution were either a gravimetric one with silver nitrate, or a volumetric one with sodium thiosulphate; the latter is preferable. It is necessary to dilute the acetic ether solution with a little alcohol before adding to water, otherwise the iodine is thrown out. Starch solution should be added to ensure a sharp end reaction. The result of a large number of estimations indicates that at 10° C. to 12° C. acetic ether dissolves 12.39 per cent. of its weight of iodine. This was confirmed by a gravimetric determination with silver nitrate. A portion of the iodine in acetic ether solution was kept on ice for twenty-four hours, the solution being carefully shaken at intervals. At the end of



this time, determinations of the supernatant solution showed a solubility of 10.48 per cent. weight in weight. At a temperature of 8° C. the solubility was found to be 11.1 per cent. weight in weight. At a temperature of 30° C. the solubility was found to be 16.15 per cent. weight in weight. A sample of the 1 in 8 w/w solution which had been standing for several months showed no diminution in iodine content; the solution is therefore stable.

#### DISCUSSION

Mr. HILL said this was a valuable note regarding a solubility determination which, so far, had not apparently been ascertained. Some years ago a similar note was contributed by Mr. William Duncan on the solubility of iodine in chloroform.

The CHAIRMAN, in moving a vote of thanks to Mr. Knott, said although this paper was short it was of importance.

The next communication was by Mr. Andrew Dryburgh on

#### An African Beauty Cabinet

##### [ABSTRACT]

DURING a recent experience in the Gold Coast Colony I came across various interesting matters, including what I have called an "African Beauty Cabinet," which is used by native African ladies. It consists of a plain wooden box, about 11 in. by 6½ in. by 3½ in., painted black, and bearing the mark of a cross on the lid. Inside the box is divided into three compartments. These contain the articles used for morning toilet, afternoon toilet, and evening toilet. In the first compartment we find the creeping roots of a species of cyperus or sedge, probably *Cyperus odoratus*, or *Cyperus pertenuis*. There is also a very light brown vegetable matter, like a bark, which has been roughly broken up and which is inflammable, as well as portions of a fibrous bark in appearance resembling mezereon bark and of a simply astringent character. The compartment contains also a section of a seed, resembling a palm seed, used for rubbing, and also a large whitish mass, a fungus, and probably a species of agaricus. The native lady takes a flat piece of stone and rubs to powder sufficient of the various ingredients along with water to form a paste, which is applied to the face, allowed to remain for an hour or two, and then washed off. The procedure with the afternoon toilet is similar, three substances being used. The evening toilet consists of a bluish aluminous clay from the Dansu river which is made into a paste with water and applied as a mud pack, and this compartment also contains a roughly made hair comb of wood.

#### DISCUSSION

The CHAIRMAN moved a vote of thanks to Mr. Dryburgh for his interesting description, and also for other interesting articles which he had exhibited.

The next communication was by Mr. J. Rutherford Hill, Ph.C., on

#### Ergotoxine Ethanesulphonate or Standardised Ergot ?

##### [ABSTRACT]

This note was prompted by receiving recently the report of the Subcommittee on Ergot of the Pharmacopoeia Commission. In the discussion on the address given by Dr. J. H. Burn at the evening meeting in Edinburgh, in March, 1927, I said Professor Barger's experience in the production of synthetic thyroxine suggested that they might separate the specific alkaloid ergotamine and use it in place of the galenical preparations. They might prepare synthetic ergotamine, as it had been found possible to prepare synthetic thyroxine. These suggestions were apparently emphasised by the report of the Subcommittee on Ergot. Since that time it has been recognised that the alkaloid ergotoxine is physiologically equivalent to ergotamine, but the latter is the subject of a patent. It would seem also that ergotoxine is less liable to deterioration, and for these reasons it has superseded ergotamine. In

the fifth annual report of the Society's Pharmacological Laboratories (1930), it is reported that ergotoxine phosphate, hitherto used as a standard for ergot, had lost two-fifths of its activity in three years. A new salt of ergotoxine, ergotoxine ethanesulphonate has been found to be much more stable. Ergotoxine up till now has been thought to differ from ergotinine by a molecule of water, so that ergotoxine was called hydro-ergotinine. The formula for ergotoxine is likely to be  $C_{33}H_{41}O_8N_3$ . Though apparently nearly related, the alkaloids are quite distinct.

There is an interesting, elaborately documented and most exhaustive account of ergot and its actions and constituents in the recently published book by Professor Barger on ergot and ergotism. The total alkaloid standardisation is open to the serious objection that while it gives the total alkaloid it does not give the proportion of ergotoxine. I venture to reaffirm that we should discard crude ergot and its galenical preparations and use only the pure alkaloid, which is now admittedly the really active therapeutic principle, and that it alone be made official in the stable form of ergotoxine ethanesulphonate. Another reason for the suggestion is that the report proposes to make ergotoxine ethanesulphonate official for the preparation of the hypodermic injection because of its superior stability. It would also be an advantage to be rid of all the complicated and costly details and labour involved in biological and colorimetric standardisations.

Another possibility has recently come to light. In the "American Journal of Botany," January, 1931, p. 50, there is a report on an exhaustive study of the reactions of the ergot fungus, *Claviceps purpurea*, to variations of environment. The research has shown that under controlled experimental conditions, both physical and physiological, an unprecedented mycelial growth of *Claviceps purpurea* can be obtained in saprophytic culture, the maximum mycelial development being obtained by using as a culture medium a standard nutrient synthetic agar. Several samples of fluid extract were made from a saprophytic growth of *Claviceps purpurea*, and these approximated as closely as possible to the strength of the U.S.P. preparations. "It has been demonstrated for the first time that this fungus (*Claviceps purpurea*) develops in saprophytic culture the three chief active principles which are characteristic of the extracts made from the natural (ergot), viz., ergotoxine, histamine and tyramine; and that they are obtainable to an extent sufficiently large to be of economic significance." I am informed by Professor Barger that there is considerable difference of opinion still in America as to whether this is likely to be a new and reliable source of supply. There is a further suggestion I made in 1927, namely, the synthetic production of ergotoxine. Professor Barger has suggested that ergotinine might be a lactone and ergotoxine the corresponding hydroxy acid. But the most recent research, not yet published, goes to show that any statements based on the supposed near relationship of ergotinine to ergotoxine must be abandoned. The relationship is shown to be more probably between ergotoxine and ergotamine. Professor Barger thinks we have no near prospect of the successful synthesis of ergotoxine. But when we consider the complexity of thyroxine and the skill by which its synthesis was accomplished, we are entitled to expect that a similar result may be attained with ergotoxine.

#### DISCUSSION

Dr. TAIT said a great deal had been said and written about ergot, and there was still a considerable amount of confusion. In the B.P.C., for example, it was stated that ergotoxine had been used clinically for its action on the uterus, but it was disappointing, and gynaecologists were now generally agreed that it was not the active constituent of ergot they wanted. The cost of ergotoxine appeared to be excessive. It had to be remembered also that at the present moment pituitrin is largely used and might replace ergot altogether. There was one curious point. It was generally admitted that the B.P. liquid extract of ergot was useless as it did not contain the specific alkaloids. He found, however, that locally the solid extract of ergot was used and was said to be efficient.



Mr. HARLEY said there was a great amount of confused literature in regard to ergot. The complaints appeared to arise more in connection with biological test than clinical experience, and that was rather remarkable. It would seem that if some adjustment could be carried out on the lines suggested by Mr. Hill it would be a very great advance.

Mr. WILSON said he remembered that workers on the liquid extract of ergot found that it deteriorated much more rapidly than the solid extract, and that might have some bearing on what had been said by Dr. Tait. In this connection one often heard it said that if one could ascertain the active principle of a drug and separate that active principle, that was better than using a galenical preparation, but this was not always carried out in practice. What was disquieting was that the galenical preparations still contained so much matter that was inert. He remembered a conversation with Professor Barger during which Mr. Hill made the remark that the B.P. liquid extract of ergot, although a scheduled poison, was not really poisonous and might be swallowed in considerable quantities without ill effects. Professor Barger made the comment that he would like to prepare the liquid extract of ergot and see if Mr. Hill would be prepared to risk swallowing an extract so prepared as to contain the specific alkaloids; he did not think the offer was accepted.

Mr. HILL, in reply, said he could not understand Dr. Tait's remark that the liquid extract was found to be useless while the solid extract was said to be effective. Both were aqueous extracts, and neither of them contained the specific ergot alkaloids. He thought they were now in the line of securing a definite chemical substance which possessed the physiological action on which the therapeutic value of ergot depended. In this way practitioners would have a definite substance of ascertained therapeutic activity to deal with, and that substance in a form that was ascertained to be stable and reliable. That was the hopeful feature in the situation, and it was to press forward that view that he had ventured to make the observations contained in the note. With regard to the talk about the poisonous nature of liquid extract of ergot, they now knew how this could be explained. The liquid extract was really scheduled, not so much because it was poisonous as because it was liable to be used for criminal purposes. In the case of nuxvomica, the strychnine which was the active principle remained perfectly stable in the galenical preparation, and the full action of strychnine could always be obtained by using the galenical preparation. It was, however, quite different in the case of ergot.

On the motion of the CHAIRMAN, a vote of thanks was awarded to Mr. Hill.

#### An Unusual Specimen

Mr. W. J. Gray exhibited a mass of carnauba wax which had been found floating in the sea in the vicinity of the Whalsay Skerries lighthouse, on the northern extremity of the Shetland Islands. This had been forwarded for identification under the impression that it was ambergris. The specimen was another interesting illustration of a point that had arisen from time to time. At a meeting in December 1905, Mr. John Lothian exhibited the specimen of carnauba wax which had been picked up on the beach on the Burra Island, on the south-west coast of Shetland; and at a meeting in April 1922, Mr. Martin Meldrum exhibited a specimen of carnauba wax found by some fishermen floating in the water off the Ayrshire coast. There was a considerable trade in carnauba wax between Brazil, where it was produced, and the Continent. Ships passing by the North of Scotland to Hamburg. One theory was that there had been a wreck and portions of the cargo had been floated by the Gulf Stream and found on the West of Scotland and on the Shetland coasts. A more likely explanation, however, was believed to be the carrying of this wax from South America in the Gulf Stream without any question of a wreck at all.

On the motion of the CHAIRMAN, a vote of thanks was awarded to Mr. Gray.

## Branch Meetings

**Falkirk.**—A meeting of the Edinburgh and South-Eastern Scottish Branch was held at Falkirk on January 27, Mr. Peter Nisbet (chairman) presiding. The chairman said they were privileged by having with them one of their best experts on pharmaceutical education, Dr. David McCall, of the Technical College, Dundee. He had great pleasure in calling upon Dr. McCall to address them on

### Pharmaceutical Education Since 1919

By DAVID MCCALL, B.Sc., PH.D., PH.C.

#### [ABSTRACT]

AFTER giving details of the various examination changes in recent years, Dr. McCall continued:—

Now that I have laid before you the principal changes and developments in pharmaceutical education in the last twelve years and have indicated the changes that are likely to take place in the near future, perhaps it would be interesting and instructive to consider some opinions on this subject which were expressed at a meeting, or rather meetings, of the Chemists' Assistants' Association in London just over fifty years ago. I had come to think that we were beginning to give education in pharmacy its proper recognition, but I found that we have not yet put into practice some of the ideals of fifty years ago. I refer to the discussions which took place in November and December 1881 on the subject of a "Compulsory Curriculum." The subject was introduced by Mr. C. E. Stewart, B.Sc., president, who brought forward a resolution which after discussion was divided into three parts. The principal points in the resolution were that the Preliminary should be an entrance examination and that three years should elapse between the Preliminary and the Minor, and that a candidate should submit evidence before examination of efficient attendance at a recognised course of training in chemistry, botany, materia medica and pharmacy; also that the time of the examination should be lengthened. It has taken us forty-five years to put these into practice. Mr. Stewart in his remarks strongly condemned the cram subject system of education. These cram establishments, said Mr. Stewart, only existed by the number of passes they made, there the training of the mind gave place to the circumventing of the examiners. The examiners themselves were in many cases unable to say whether the men who passed the examination were well trained or only superficially so. This vicious system of education could only be put down by an alteration of the system of examination. Mere alteration of the examination would not meet all the circumstances of the case. What was wanted was the adaptation of examination to education. Permissive education having failed, compulsory education must step in. The resolution was ably seconded by Mr. O. Wallis, who drew attention to the fact that there was no intention to increase the difficulty of the syllabus, but only to improve the conditions under which the knowledge should be obtained and the conditions under which the candidate would be examined. An amendment was moved by Mr. Wyatt, who did not wish to enforce a compulsory curriculum, but wished first to try the expedient of lengthening the examination. In seconding the amendment, Mr. Killick said: "It has been admitted on almost every hand that education had been controlled by examination; then the root of the whole matter should be struck at, and efficient examination would bring about the desired change in education."

Mr. R. Winfrey (now Sir Richard Winfrey), in support of the amendment, said that any reform to be rightly progressive should give freedom to all to gain their knowledge in any way best adapted to their peculiar circumstances. He contended that the enforcement of a compulsory curriculum would not bring about any advancement. Increase the stringency of the examination, he said, lengthen their time, lay down a basis of science and see that they knew it. But let them be free to use whatever means might best suit them in gaining that knowledge. I would call your attention to the remarks of Mr. Branson. He agreed with Mr. Stewart that a



radical change in pharmaceutical education and examination was necessary. He favoured at least a year's interval between the scientific portion of the Minor—chemistry and botany—and the technical portion. Unless this interval be provided, he continued, some of the defects existing at present will be perpetuated, viz., too large a number of subjects for a single examination. Mr. C. B. Miller said that not only did he favour the splitting of the examination into two parts, but he went further, and said that a portion of the examination should be written. Again I would ask you to mark particularly what was said by Mr. Naylor, who favoured the resolution. Again pharmacists are about to go to Parliament to ask for increased power, and as far as he could see, their only ground of argument was that they had been faithful in the little which had been committed to them. He thought they would be more justified in asking, and more likely to obtain, the increased legislative power they desired if they could give proof of having sacrificed their time, expended their money, and used their brains for the protection of the lives of the public, and hence, to an extent, anticipated their future needs and corresponding claims. Mr. Stewart, in summing up, said that those who opposed the resolution wished to have such an examination as would demand an expenditure of considerable time and money. They thus answered their own objection to a compulsory curriculum on the grounds of hardship and expense. Mr. Stewart visualised a fixed course of study in twelve to eighteen schools. He added: "It has been said that examination controlled education. That was a bad principle and the converse was aimed at by the resolution." The amendment was lost.

#### MANY CHANGES

One point cannot fail to impress even a casual observer of pharmaceutical education in the last ten years. There had been a plethora of changes and adjustments in regulations and syllabuses. Many felt, and amongst these many teachers, that much of the shufflings and changes might have been spared us, if the problems had been tackled in the proper way. There was scarcely sufficient time allowed between changes to enable the new position to be consolidated, before other changes made their appearance. If it is true, and few would be bold enough to deny it, that frequent legislative changes have an injurious effect on trade, it is at least equally true, that frequent changes in regulations and examinations have an injurious effect on education.

After the changes which are foreshadowed in the reports of the committees I have mentioned have been put into operation, I think that the position of pharmaceutical education might with advantage enjoy a period of comparative stability. The pharmaceutical student compares very favourably with students of other professions. If I were asked to prescribe a panacea for pharmacy to-day I would be well content to allot to education the function of adjuvant and to order as the basis of my prescription an adequate dose of protective legislation. We have reached the position now when there is some truth in the statement that pharmaceutical education is rapidly becoming divorced from the practical side of pharmacy. The dual aspect of pharmacy—professional and educational—might be compared to horses unequally yoked together. What monopoly we have to-day and what rights we enjoy as a profession are too largely dependent on our being the authorised vendors of poisons. Had a fraction of the legislation on poisons in the last twelve years been directed to raising the status of pharmacy to-day, we would have been in a much better position. The new pharmacy Bill which may become law in the near future bitterly disappoints many people because of its one-sided nature; again, pharmacy is being dragged at the heels of poisons. On several occasions in the past, pharmacy has been an invited guest at Whitehall, and has on more than one occasion suffered the indignity of being politely shown out before its tale was told. The time must soon come when pharmacy must assume a sterner mien, and say to those with whom it has to deal: "Here we are, and here we stay, till we get what we've come for."

#### Discussion

The CHAIRMAN said Dr. McCall had given them all something to think over, more particularly the younger members of the craft.

Mr. ROBERT MARSHALL (divisional secretary, Grange-mouth) said they had listened to a very able paper, bringing up many points of interest. It would strike most of them that Dr. McCall had spoken from what might be called the ideal or theoretical aspect, but there was one matter they could not forget, namely, that after all they had to earn their living. The attempt to put the whole training into three years instead of four or five years was not a practical success. He admitted that probably matters were worse in the South than they were in Scotland, but even in Scotland he must admit that apprentices did not now have the same opportunity of seeing things done that used to be common in former days. He doubted very much if any business in Scotland could be profitably carried on in the dispensing of medicines alone.

Mr. DAVID HARLEY (vice-chairman of Executive, North British Branch) said Dr. McCall had given them a clear idea of the great amount of attention which had been devoted to the educational side of their calling in recent years. They could realise that the foundation on which they were to build was the important matter. One of the sad features of the existing situation was the large number of young persons who could not obtain suitable employment. He would like to ask Dr. McCall whether it would not be an advantage in the equipment of a qualified pharmacist to have some period of training in business procedure.

Mr. SKINNER (Stirling) said he had been long enough in pharmacy to be familiar with the changes to which Dr. McCall had referred. He would like to raise the question as to whether they were trying to make education fit the pharmacist or make the pharmacist fit the education. The work carried on to-day in an ordinary pharmacy was of a comparatively simple nature and could not be made to yield a sufficient profit to pay a proper salary for a qualified pharmacist. A pharmacist was in business to make it pay. His experience was that the qualified pharmacist turned out to-day was not equal to the qualified pharmacist of some years ago.

Mr. CURRIE (Leith) said there were too many pharmacists in a district to provide sufficient professional work for each. He felt that some regulation ought to be applied to retail pharmacies so as to eliminate those places where the apprentice had no suitable opportunity of practical training.

Mr. WILSON (Burntisland) said they were at a critical stage in the development of pharmacy. It had to be remembered that the standard of education all over the land had risen in recent years and also that facilities for study had been greatly increased. They must maintain their educational standard on a level with the general education of the community. He hoped any revision of examination regulations would include some modification of what appeared to be the excessive number of days devoted to the Pharmaceutical Chemist Qualifying examination. He was glad to observe that some of the modifications which they had been pressing upon the attention of the Council were likely to be adopted.

Mr. RUTHERFORD HILL said the purpose of these branch meetings was not only to bring the work of the Society to the notice of the members throughout the country, but, even more important, to get the opinion of the members of the Society for the guidance of the Council on questions of policy.

Dr. McCALL, in reply, said that they ought to direct all their energies to the securing of protective legislation for raising the profession of pharmacy. If they raised the matriculation standard they would keep out of the profession a great many inadequately educated persons. In answering Mr. Harley's question, he would like to say that he considered the student of to-day was a better type with a better education than formerly. He felt sure that the Society would soon take some steps for the regulations of pharmacies in the matter of apprenticeship.

Mr. JOHN GILMOUR (Dunfermline) moved a vote of thanks, which was awarded with acclamation.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, February 4

THE chief topic of interest in the markets during the past week has been the question of how far, if at all, the Government's general tariff proposals will affect the markets. There is considerable diversity of opinion on the subject, and on account of this uncertainty, and possibility of higher costs of landed goods, the spot position is generally very steady. Holders are not anxious to sell except at full rates. For the time being there is very little interest in shipment offers, business being mostly confined to the spot position. Sterling has again fluctuated between very narrow limits and well maintains its former international exchange value. In pharmaceutical chemicals there is little to comment upon this week, with prices showing no material alteration and business moving on rather quiet lines. The general tone is very steady. In crude drugs, values of many products remain at low levels with business by no means active. Some interest has been shown in spot Japanese camphor and menthol. Honey is very scarce on a firm market. In essential oils, except for a trifle more inquiry on spot, there is little to report. Sicilian hand-pressed lemon has fallen back after the advance of last week. Bergamot is freely offered. Cassia is fully steady. Japanese dementholised peppermint has been moving on spot. Products in the industrial chemical section are all very steady pending the imposition of the general tariff duty. In fixed oils, business has been very patchy, with palm oils showing an improved tone at rather better prices. American turpentine is dull, while linseed oil is steadier. It is now general for shipment quotations in all markets to state that any import duties that may be imposed prior to the arrival of the goods will be for buyer's account.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	Feb. 4	Value of the £
Amsterdam ..	Fl. to £	12.107	8.58½	14/2
Berlin ..	Mks. to £	20.43	14½	14/3½
Brussels ..	Belga to £	35	24.80	14/2
Copenhagen ..	Kr. to £	18.159	18½	19/11½
Lisbon ..	Esc. to £	110	110	20/0
Madrid ..	Ptas. to £	25.22½	44½	34/11
Milan ..	Lire to £	92.46	67½	14/5½
Montreal ..	Dol. to £	4.86½	3.95	16/2½
New York ..	Dol. to £	4.86½	3.45	14/2
Oslo ..	Kr. to £	18.159	18½	20/2½
Paris ..	Fr. to £	124.21	87½	14/1½
Prague ..	Kr. to £	164.25	117	14/10½
Stockholm ..	Kr. to £	18.159	17.85	19/7½
Warsaw ..	Zloty to £	43.38	31	14/3
Zurich ..	Fr. to £	25.2215	17.70	14/0½

Bank rate 6 per cent.

## Pharmaceutical Chemicals, etc.

THE chief interest is in the immediate future of the market on the question of the possibility of values being affected by the forthcoming import tariff. Most spot holders are preferring to await developments. Business has been limited, but the tone throughout is particularly steady.

ACETANILID is unchanged, with the market rather slow: B.P. crystals and powder, 1s. 5½d. to 1s. 6¾d. per lb. as to quantity.

AMIDOPYRIN.—Dealers' prices for spot material are well up to replacement costs; business has been limited: crystals, five cwt., 17s. 2d.; two cwt., 17s. 6d.; less than two cwt., up to 18s. per lb., with powder 2½d. per lb. extra.

AMMONIUM BENZOATE is quoted on spot at about 3s. 4d. to 3s. 6d. per lb. as to quantity.

ASPIRIN.—The volume of business moving is well up to average and most of it is being done from home sources of supply. Home trade: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d.; 23 lb., 2s. 9d.; 14 lb., 2s. 10d.;

7 lb., 3s.; 1 lb., 3s. 4d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 7d.; five cwt., 2s. 8d.; one cwt., 2s. 8½d. per lb. f.o.b.; less than one cwt., 2s. 9d. per lb. ex works.

BARBITONE is very steady as quoted by dealers and spot supplies are small: spot, one cwt., 11s. 4d.; smaller parcels, up to 11s. 9d. per lb.

BENZONAPHTHOL is offering on spot at about 3s. 7d. to 3s. 9d. per lb. as to quantity.

BENZOIC ACID (B.P.).—This market is well maintained and business is moving well: quantities, ex works, 1s. 10d. to 1s. 11d.; spot parcels, 1s. 11½d. to 2s. 2d. per lb. ex store.

BROMIDES.—Makers' prices continue at the reduced rates notified last week. Some imported material is competitive: ammonium, not less than five cwt., 1s. 7d.; one cwt., 1s. 8d.; smaller quantities, 1s. 11d. per lb.; potassium, B.P. crystals and granular, not less than five cwt., 1s. 4d.; one cwt., 1s. 5d., and smaller quantities, 1s. 8d. per lb.; sodium, B.P., not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; and smaller quantities, 1s. 10d. per lb. Special prices for bulk quantities. Quoted without engagement.

BUTYL CHLORAL HYDRATE is steady at previous rates: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CALCIUM LACTATE continues in fair demand, with competition keen: spot, 1s. 2d. to 1s. 3½d. per lb. as to quantity, and up to 1s. 5d. per lb. for small parcels.

CHLORAL HYDRATE.—Home makers' prices are at the advance recorded last week. Duty-paid crystals in 14-lb. containers: 10 cwt., 3s.; five cwt., 3s. 0½d.; one cwt., 3s. 1½d.; 56 lb., 3s. 2½d.; 23 lb., 3s. 3d. per lb., and in 23-lb. jars one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Dealers' prices for spot supplies of imported material are about steady at 1s. 1¼d. to 1s. 1½d. per lb., less 5 per cent., carriage paid. British makers' prices have remained unchanged since the end of December last at 1s. 1¼d. per lb., less 5 per cent. discount.

CREAM OF TARTAR.—The market for spot stocks of imported material is fully steady from 103s. 6d. to 104s. 6d. per cwt., less than 2½ per cent., carriage paid. British makers quote 99 to 100 per cent., at 103s. 6d. per cwt., less 2½ per cent. discount.

CREOSOTE (B.P.) continues to be quoted on spot from 1s. 10½d. for quantities in demijohns; smaller lots, up to 2s. 2d. per lb.

CREOSOTE CARBONATE meets with occasional inquiry and is quoted on spot from 6s. 9d. to 7s. 3d. per lb. as to quantity.

GUAIACOL CARBONATE is fully steady as quoted by dealers, with spot at 7s. 9d. to 8s. 3d. per lb. as to quantity.

HEXAMINE.—Business continues on a good scale and prices are very steady: free-running crystals, spot, from 2s. 8d. to 3s. 1d. per lb. as to quantity.

HYDROQUINONE.—There is no change in the controlled prices; market rather quiet: ten cwt., 4s. 8½d.; five cwt., 4s. 9½d.; two cwt., 4s. 10½d.; one cwt., 4s. 10¾d.; 56 lb., 4s. 11¾d.; 23 lb., 5s. 1¾d.; 14 lb., 5s. 3½d.; 7 lb., 5s. 5½d.; 1 lb., 6s. per lb., carriage paid.

LACTIC ACID (B.P.).—Business continues on a good scale and makers' prices are well maintained. Some imported material is offering. Quoted for bulk quantities from 1s. 5½d. to 1s. 8d. per lb., in carboys; higher prices for small lots in winchesters.

METHYL SALICYLATE (B.P.).—Makers' prices hold very steady: one ton and over, 1s. 4½d.; five cwt., 1s. 4¾d.; one cwt., 1s. 5d.; less than one cwt., 1s. 6d. per lb.; small lots, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—There is no change in dealers' spot prices; market steady, business limited: two cwt., 18s. 3d.; one cwt., 18s. 9d.; 56 lb., 19s. 4d.; small parcels, 20s. per lb.

METOL.—The market is unchanged and rather quiet: 56 lb., 9s. 3d.; 23 lb., 9s. 6d.; 14 lb., 9s. 9d.; 7 lb., 10s. 6d.



per lb., in tins; 1-lb. bottles extra, and higher prices for smaller quantities.

**MILK SUGAR.**—Dealers' prices for Continental material are about steady, with some moderate business moving: one ton, 57s.; ten cwt., 58s.; two cwt., 59s. per cwt., in two-cwt. cases.

**PARAFORMALDEHYDE** is unchanged and business continues on a good scale: 100 per cent. powder, quantities in kegs, 1s. 3d.; smaller parcels, up to 1s. 6d. per lb.

**PHENACETIN.**—This market is fully steady as quoted and spot supplies are now very limited: crystals, ten cwt., 5s. 3d.; five cwt., 5s. 5d.; two cwt., 5s. 6d.; and less, 5s. 9d. per lb., with powder 2½d. per lb. extra.

**PHENAZONE.**—There has been a good demand for the limited spot stocks; market firm: crystals, ten cwt., 9s. 1d.; five cwt., 9s. 3d.; two cwt., 9s. 6d.; and less, 9s. 10d. per lb., with powder 2½d. per lb. extra.

**PHENOLPHTHALEIN.**—Home makers' prices command the market: ten cwt., 4s. 4d.; two cwt., 4s. 6d.; less than two cwt., 4s. 10d. per lb.

**POTASSIUM PERMANGANATE (B.P.).**—The market is firm as quoted and tends to advance: quantities, in drums, 8½d. to 8½d.; druggists' parcels, 8½d. to 9½d. per lb., ex store.

**POTASSIUM SULPHOGUAIACOLATE.**—Dealers' prices are unchanged at 4s. 6d. to 5s. per lb. as to quantity.

**QUININE SULPHATE.**—The Convention price for this market is steady at 2s. 5d. per oz., carriage paid on bulk quantities.

U.S. imports for January-November totalled 1,224,391 oz., valued \$414,231, against 1,151,098 oz. (\$413,398) for the same period of 1930.

**RESORCIN** is quite steady and business has been more in evidences: one cwt., 4s. 1d.; 56 lb., 4s. 2d.; 28 lb., 4s. 3d.; and smaller parcels up to 5s. per lb.

**SALICYLIC ACID (B.P.).**—Home makers' prices continue at the old rates: one ton, 1s. 5d.; ten cwt., 1s. 5½d.; five cwt., 1s. 6d.; one cwt., 1s. 6½d.; small parcels, up to 2s. per lb.

**SALOL.**—Dealers' prices are well maintained: crystals, two cwt., 5s. 2d.; one cwt., 5s. 4d.; 56 lb., 5s. 6d.; smaller parcels, 5s. 9d. per lb.; powder, 2½d. per lb. extra.

**SODIUM BENZOATE (B.P.).**—A good demand continues and the market is firm and tends to advance: one ton, 1s. 9d. up to 2s. 1d. per lb. for small parcels.

**SODIUM DIETHYLBARBITURATE** is firm at last week's advance; spot stocks are short: spot, 12s. 6d. to 13s. per lb. as to quantity.

**SODIUM SALICYLATE (B.P.).**—Makers' prices are steady and some imported material is competitive. Home trade: powder, two tons, 1s. 10d.; one ton, 1s. 10½d.; ten cwt., 1s. 11d.; five cwt., 1s. 11½d.; one cwt., 2s.; 28 lb., 2s. 1d.; 14 lb., 2s. 3d.; 7 lb., 2s. 4d.; 1 lb., 2s. 7d. per lb., with crystals 1d. per lb. extra.

**SULPHONAL.**—Spot supplies are held for full quoted prices: crystals, two cwt., 14s. 6d.; one cwt., 15s.; 56 lb., 15s. 3d.; smaller parcels, up to 16s. per lb., with powder 2½d. per lb. extra.

**TARTARIC ACID (B.P. CRYSTALS).**—Dealers' prices are about unchanged, with imported material quoted from 1s. 1½d. to 1s. 1½d. per lb., less 5 per cent., ex wharf. There has been no change in British makers' price since the beginning of December last, with the quotation at 1s. 1½d. per lb., less 5 per cent. discount.

**VANILLIN.**—Market is about steady at Convention rates, with occasional outside parcels at slightly cheaper prices: ex guaiacol, one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.; ex clove oil, 16s. to 19s. per lb. as to quantity, from one ton to less than 14 lb.

### Crude Drugs, etc.

**ACONITE ROOT.**—Napellus is offering on spot at about 72s. 6d. per cwt.

**AGAR-AGAR.**—There has been more interest in spot, but quoted values are again a shade easier. Spot, Kobe No. 1, 3s. 11d.; No. 2, 3s. 10d.; Yokohama, 3s. 9½d.; shipment, Kobe No. 1, 3s. 1½d.; No. 2, 2s. 10d.; Yokohama, 2s. 10d. per lb. c.i.f.

**BALSAMS.**—Business has been light with the market steady. *Tolu*, 3s. 2d.; Canada, 4s. per lb., spot.

**BUCHU.**—A moderate inquiry is being received: good green rounds, 11d. to 11½d.; yellow to ordinary, 8d. to 9d.; fair quality ovals, 8d. per lb., spot.

**CAMPHOR.**—Rather more business moving on spot: Japanese, slabs, 2s. 9d.; tablets not offering. Shipment,

slabs, 2s. 0½d.; flowers, 2s. 1d.; tablets, 2s. 8½d. per lb. c.i.f. English refined camphor is now quoted as follows: B.P. flowers, one cwt., 3s. 5d., 28 lb., 3s. 6d.; small lots, 3s. 7d. per lb.; transparent tablets, 4 oz., 8 oz., 16 oz., 3s. 8d.; 1 oz., 2 oz., 3s. 9d.; ½ oz., ¾ oz., ¼ oz., 3s. 10d. per lb.

U.S. imports for January-November of natural crude totalled 1,908,903 lb., valued at \$681,208, against 925,938 lb. (\$368,525) for the same period of 1930; imports of natural refined for the same period of 1931 totalled 1,051,909 lb. (\$502,230), against 966,344 lb. (\$526,637) for the eleven months of 1930; imports of synthetic for the same period of 1931 totalled 1,718,090 lb. (\$561,905), against 2,013,267 lb. (\$713,542) for the same period of 1930.

**CANTHARIDES.**—A very limited quantity is available at about 7s. per lb.

**CARDAMOMS.**—The market is unchanged: green Alleppy spot 2s. 6d., and shipment 2s. 8d. c.i.f. Bombay seeds, 3s. 6d. spot and 3s. 3d. c.i.f.

**CASCARA SAGRADA.**—The shipment figure for 1931 peel is 49s. to 50s. c.i.f., with spot offers from 52s. 6d. per cwt. for the same year's peel in bulk quantities.

**CHAMOMILES.**—Reports state supplies are limited.

**CLOVES.**—The market has been rather dull, but values are about maintained: Zanzibar, spot, 8½d.; afloat, 7½d.; January-February, 7½d.; February-March, 7½d., c.i.f. Madagascar, spot, 8½d. sellers.

The landings of Zanzibar in London during the week ended January 28 were 403 and the deliveries 371, leaving a stock of 1,989, against 759 in 1931. From January 1 to date landings of Zanzibar have been 559, against 103 in 1931, and the deliveries 549, against 257 in 1931. Landings of Madagascar for the week ended January 28 were nil and the deliveries nil, leaving a stock of 973, against 1,058 in 1931. Landings of Madagascar this year to date have been nine, against 500 in 1931, and the deliveries 43, against 273 in 1931.

**COCONUT (DESICCATED).**—At the further advances recorded the market is firm: spot, fine, 30s.; medium, 30s.; shipment, halves, February-March, 28s.; March-April, 27s. 6d. c.i.f. sellers.

**COD-LIVER OIL.**—There is nothing fresh to report here. Lofoten fishing is just commencing. Supplies of last season's oil are very short. Finest Lofoten steam-refined non-freezing medicinal oil, 112s. to 114s. per barrel c.i.f. Spot, in minimum five-barrel lots, 120s. to 122s. 6d. Some brands may be cheaper.

**DAMIANA LEAVES.**—The spot market continues to be quoted at 10½d. per lb.

**ERGOT.**—Russian is so far unavailable. Supplies of Portuguese are running short. Spanish is quoted at 2s. 1d. to 2s. 2d. per lb. as to quantity.

**GELATIN.**—Quoted prices are holding steady; business fair: gold leaf, 2s. 1½d.; silver leaf, 1s. 10d.; bronze leaf, 1s. 7½d.; thin leaf, 1s. 5½d. per lb. in one-cwt. packages.

**GENTIAN.**—This market is fully steady as quoted at 42s. 6d. per cwt.

**GINGER.**—The market has been dull and is again a trifle easier: West African, spot, 29s.; for arrival, 22s. c.i.f. sellers.

**GUM ACACIA.**—The market has fluctuated daily, and at one time showed an advance of about two shillings, closing about level on the week: spot, Kordofan cleaned sorts, 40s.; natural, 38s.; bleached, 85s. to 95s. per cwt. Shipment, Kordofan cleaned sorts, 32s. 6d.; natural, 30s. 6d. per cwt. c.i.f.

**HONEY.**—Except for some parcels of the cheaper grades of Jamaican the market is practically bare of supplies: the market is firm with high prices ruling.

**HYDRASTIS.**—Business has been slow: spot is quoted at about 6s. per lb.

**LIQURICE ROOT.**—Double-peeled is offering at about 62s. 6d. per cwt., spot.

**MALE FERN EXTRACT.**—This market is keeping steady as quoted from 5s. to 5s. 3d. per lb.; supplies limited.

**MENTHOL.**—The market is well maintained and there has been more doing on spot: K/S brands, spot, 15s. 6d.; January-March, 13s. 9d. per lb. c.i.f.

U.S. imports for January-November totalled 291,273 lb., valued at \$802,151, against 277,375 lb. (\$929,220) for the same period of 1930.

**MERCURY.**—There is no alteration in the price of Spanish-Italian for shipment at 65 dollars per bottle, f.o.b. Continental port. Spot offers are at about £17 15s. per bottle.

U.S. imports for January-November totalled 27,054 lb., valued at \$32,649, against 208,486 lb. (\$275,322) for the same period of 1930.

**OLIBANUM.**—Rather more demand, with some lots of inferior drop cleared. Fine pale drop is rather scarce and quoted at 85s. to 87s. 6d. per cwt.



**PEPPER.**—Following weakness early on, the market is about level on the week and closes steadier. Lampong, spot, 7½d.; shipment, January-March, 6½d., sold; March-May, 6½d. c.i.f. sellers. Tellicherry, spot, 7½d.; January-March, 6½s. c.i.f. Alleppy, spot, 7½d.; shipment, January-March, 6½s. c.i.f. White Muntok, spot, 8½d.; shipment, January-March, 7½d.; March-May, 7½d.; April-June, 7½d. c.i.f., buyers.

**QUASSIA CHIPS.**—The spot price is steady at about 27s. 6d. per cwt.

**QUILLARIA BARK.**—Whole bark is mentioned at 35s., and crushed at 42s. 6d.

**RUBBER.**—After further declines in value early on the market is a little steadier, closing about level on the week. Total London stocks, 125,339 tons, against 124,502 tons a year ago. Standard ribbed smoked sheet, sellers, spot, 2½d.; February, 2½d.; March, 2½d.; April-June, 2½d.; July-September, 3½d.; October-December, 3½d.

**SAFFRON.**—The market is steadier and some limited business is being done: prime B.P., 50s.; extra B.P., 45s.; super B.P., 45s. per lb., and less for bulk quantities.

**SEEDS.**—**ANISE.**—Spanish 55s., and Russian 38s. per cwt. on the spot. **CANARY.**—More demand; market firm: Mazagan, on spot, 16s. 6d.; shipment, not quoted; Tangier, 15s. spot; Larache, 14s. 9d. spot; and Kenitra, 15s. **LINSEED.**—Spot, Mazagan, 14s. 6d., and shipment, 13s. c.i.f.; Morocco, 14s. **CORIANDE.**—1929 crop firm at 17s. spot. No 1931 crop. **CUMIN.**—Malta, spot, 40s.; Morocco, 30s. spot sold. **FENUGREEK** remains firm: Morocco, 15s. spot, and Tunisian, 17s. **CARAWAY.**—Dutch, spot, 34s. to 35s. per cwt. **MUSTARD.**—English, 20s. to 23s. per cwt. according to quality.

**SENEGA.**—This market seems to be quite neglected: spot is quoted at about 1s. 9d. per lb.

**SENNA.**—Scarcity of finest selected hand-picked Alexandrian pods continues, but there is now a better selection of the medium to good qualities. Manufacturing pods are quoted at 4½d. to 5d. per lb. In Tinnevely there is a shortage of good quality hand-picked pods, which are quoted at 8½d. per lb. Tinnevely leaves remain quiet.

**SHELLAC.**—The market is quoted slightly dearer this week but is inclined to be unsteady: spot, TN standard orange, 71s.; fine orange, 80s. to 157s. 6d.; pure button, 90s. For delivery, TN sellers, March, 66s.; May sold, 67s.; August sold, 70s.; for arrival, TN sellers, January-February, 62s. 6d. c.i.f.

**WAX (VARIOUS).**—Prices are all well maintained and the market is much steadier. There has been more interest in spot business. **JAPANESE**, on spot, is steady at 55s. to 57s. 6d.; **CARNAUBA**, fatty grey and chalky grey, 75s.; medium yellow, steady, 140s.; fine yellow, 160s.; **CANDELLA** is unchanged at 90s. per cwt.; **SPERMACE**, steady at 9½d. per lb. spot; **PARAFFIN** is quoted from 25s. to 34s. per cwt. as to melting point; **CERESINE** is quoted from 35s. to 80s. per cwt. as to colour and melting point; **BEES'** is steadier and in better demand: bleached, discs, £7 12s. 6d.; slabs, £7 10s.; yellow refined, £5 12s. 6d.; yellow crude, £5 per cwt., spot.

### Essential Oils

**PRACTICALLY** all the inquiry on the market is for spot material; interest in shipment business is lacking. The very fair possibility, if not probability, of this market being affected by the forthcoming tariff is no doubt the cause of business being limited to spot. Sicilian lemon has fallen back after the recent jump. Cassia is firm. Bergamot is freely offered.

**ANISE (STAR).**—There has been a little more interest in spot and the position is unchanged; shipment quotations are irregular: spot, "Red Ship," in leads, 2s. 3d.; in tins, 2s. 1d.; in drums, 1s. 11d.; shipment, in leads, 2s.; in drums, 1s. 9d. c.i.f.

**BERGAMOT.**—There is no further development to report regarding the control of this market and official prices are not expected to be issued for at least another week. Meanwhile stocks are freely offered by dealers from 10s. to 10s. 6d. per lb., and the supplies seem to be heavy in most directions.

**U.S. imports** for period January-November totalled 67,674 lb., valued \$115,944, against 169,896 lb. (\$428,272) for the same period of 1930.

**BOIS DE ROSE.**—The market has been quiet, with values steady: Brazilian, spot, about 2s. 9d.; Cayenne, spot, 6s. 3d. per lb.

**CAJUPUT.**—Shipment quotations are at about 2s. 1d. c.i.f., and spot offers in the region of 2s. 6d. per lb.

**CARAWAY.**—Business has been unimportant, with prices unchanged: double-distilled, about 7s. 6d.; crude, 7s. 1d. per lb.

**CASSIA.**—Conditions on spot are firm at full rates as quoted in the region of 4s. 3d. and upwards per lb. spot.

**CEDARWOOD.**—The market is dull and unchanged: spot, 3s. 4d. to 3s. 6d. per lb. as to quantity.

**CINNAMON LEAF.**—Business is quiet, with spot offers at about 3s. 4d. to 3s. 6d. per lb. as to quantity.

**CITRONELLA.**—Business has been of little importance but there is a better tone in Ceylon: Java, spot, about 2s. 7d.; shipment, 2s. 5d. c.i.f. Ceylon, spot, 1s. 8½d. to 1s. 9½d.; shipment, 1s. 7½d. per lb. c.i.f.

**CLOVE.**—Prices are steadily maintained on a quiet market: English, 90 to 92 per cent., about 5s. per lb.; Madagascar, spot, 4s. 4d. per lb.

**EUCALYPTUS.**—Business continues on moderate lines and the market is steady: Australian, 70 to 75 per cent., 1s. 1d. to 1s. 1½d.; 80 to 85 per cent., 1s. 3d. per lb.; Spanish, 70 to 75 per cent., 1s. 3d. per lb.

**GERANIUM.**—The shipment market for Bourbon is dearer at about 18s. 9d. per lb. c.i.f., and spot is steady from 19s. 9d. per lb. Algerian on spot is firmer at the higher prices of 21s. 6d. to 22s. per lb.

**GINGERGRASS.**—Business has been slow: spot is quoted in the region of 7s. per lb. as to quantity.

**LAVENDER.**—Some small business passing, with the market steady: French, 38 to 40 per cent., 11s.; 36 to 38 per cent., 10s. 9d. per lb., and slightly less for good quantities. Some brands may be cheaper.

**LEMON.**—After the rapid advances of the past two weeks a sharp decline is recorded. Sicilian hand-pressed, new crop, is quoted from 6s. 6d. to 6s. 9d. per lb. c.i.f. Spot offers vary as to seller and brand in the region of 6s. to 6s. 4d. per lb. Machine-made is quoted for shipment at about 5s. 2d. per lb. c.i.f. Californian, spot, 3s. 7½d. per lb., in drums.

A Messina report estimates the carry-over from last season was nearly 700,000 lb., and that the oil production this year will not be much more than one-third of the previous year.

**U.S. imports** for period January-November totalled 316,243 lb., valued \$198,861, against 606,148 lb. (\$574,734) for the same period of 1930.

**LEMONGRASS** is rather quiet and inclined to be easy as quoted at 2s. 4d. to 2s. 6d. per lb. as to quantity.

**MANDARIN.**—Dealers are quoting spot at about 16s. 3d. per lb.

A Messina report states production of new crop oil has finished and is unusually small, growers preferring to pack the ripened fruit for sale.

**ORANGE.**—The market is about level on the week and continues generally steady, but by no means active. Sicilian sweet, for shipment, 7s. 10d. per lb. c.i.f., and spot is about 8s. and upwards per lb. as to brand. Bitter orange on spot is quoted at 6s. 9d. per lb.; Californian, spot, 5s. to 5s. 7d. per lb. as to quantity.

**PATCHOULI.**—The market is inclined to be irregular, with an occasional sale under the general figure of 12s. 6d. per lb.

**PEPPERMINT.**—There has been more interest in the spot position of Japanese demethylated and prices are steady at 4s. 3d. The shipment value for January-March was firmer early on, but has since moved back to about 3s. 10½d. per lb. c.i.f. American, on spot, 9s. 3d. per lb.

**U.S. exports** for January-November totalled 190,320 lb., valued at \$370,799, against 221,635 lb. (\$675,798) for the same period of 1930.

**PETITGRAIN.**—Prices are maintained at their former rates: spot, 4s. 6d.; shipment, 4s. 3d. per lb. c.i.f.

**SASSAFRAS** is about unchanged at 4s. 6d. per lb., with the market rather dull.

**SPEARMINT** is steady as quoted on spot at 8s. 6d. per lb.; business is limited.

**SPIKE.**—Prices are well maintained: shipment, from 4s. per lb. c.i.f., and spot 4s. 3d. to 4s. 6d. per lb. as to quantity.

**WORMSEED** is steady but of little interest: spot, 13s. 4d. to 13s. 6d. per lb.

The following importations from the countries indicated have taken place during the period January 26 to February 1 inclusive.—**Anise (Star)** (Hong-K.) 50 cs., 3 dms.; cinnamon (Kenya) 3 dms.; citronella (Java) 4 dms., (Ceylon) 7 dms.; clove (Fr.) 3 cs.; eucalyptus (Austl.) 46 cs.; geranium (Fr.) 2 dms.; lavender (Fr.) 10 cs.; lemon (It.) 151 cs.; lemongrass (Ind.) 4 dms.; lime (B.W.I.) 11 cs.; mandarin (It.) 5 cs.; nutmeg (U.S.) 6 cs.; orange (Fr.) 35 dms., (Netherlands) 14 cs.; peppermint (U.S.) 11 cs., 1 dm., (Jp.) 5 cs.; petitgrain (Gy.) 10 cs.; sandalwood (Gy.) 3 cs.



## Industrial Chemicals, etc.

BUSINESS continues on limited lines and the general tone is very steady. Some few products show small advances this week, and the possibility of further import taxes being imposed in the near future tends to harden values all round. **ACETIC ACID.**—The market continues steady and keenly competitive; business is fair: 80 per cent. technical, £37 5s.; 80 per cent. pure, £38 5s. per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £59, in glass demijohns; glacial, in barrels, £48 per ton, carriage paid in U.K. **ACETONE.**—B.G.S. meets with a steady demand and prices are holding on a keen market: £61 to £66 per ton, in drums, carriage paid in U.K. **AMMONIA (ANHYDROUS)** is unchanged and mostly supplied from home sources: 99.95 per cent. material, 10d. to 1s. per lb., in loaned drums, carriage paid, and less for important contracts. **AMMONIUM CHLORIDE** is fully steady as quoted and tends to advance: grey galvanising, £21 per ton, in casks, ex store; slightly less for contracts. **BLEACHING POWDER** is holding at a further advance for home trade: 35 to 37 per cent. chlorine, £8 15s. per ton, in minimum four-ton lots. **FORMALDEHYDE** is a competitive market and a fair amount of business is being done: 40 per cent., by volume, £27 10s. to £28 per ton, in casks, ex store; slightly lower prices for big quantities. **ISOPROPYL ALCOHOL** has been rather quiet of late, but prices are about steady: first quality, ex acetone, 11s. to 11s. 6d. per gallon, in drums, carriage paid; ex "cracked petroleum" qualities, 9s. 3d. to 9s. 6d. per gallon. **LEAD ACETATE** is quoted at varying figures, while business has been moderate: brown, £39; white, £41 per ton, in casks, ex store. **LITHOPONE** is irregular and tends to advance on account of the 50 per cent. import duty: 30 per cent. Continental Red Seal, £22 10s. per ton, ex store. **OXALIC ACID** is very steady as quoted by dealers: quantities, £49 per ton; cwt. lots, 50s. 6d., ex store. **POTASH CAUSTIC** (88 to 92 per cent. solid).—Dealers' prices for spot supplies continue at about £57 per ton, in drums, ex store. **POTASSIUM CARBONATE.**—Business has been rather better and prices are well maintained: 90 to 92 per cent., £30 per ton; 96 to 98 per cent., £32 per ton, in casks, ex store. **POTASSIUM CHLORATE** is maintained at the recent advance; business limited: quantities, minimum one ton, £34 10s. per ton; small quantities, 4d. to 5d. per lb., ex store. **POTASSIUM PERMANGANATE** is firm and business has been moving on a good scale: commercial quality, in two-cwt. drums, 7½d. to 8½d. per lb., ex store. **POTASSIUM PRUSSIAN.**—Dealers' prices for bulk quantities are steady at £69 to £71 per ton; small parcels, 9½d. to 10½d. per lb., ex store. **RED LEAD.**—English, five to ten cwt., £31; ten cwt. one ton, £30 15s.; one to two tons, £30 10s.; two to five tons, £30; five to 20 tons, £29 10s.; 20 to 100 tons, £29; over 100 tons, £28 10s. per ton, less 2½ per cent., carriage paid; non-setting red lead, 10s. dearer in each case; Continental material, £1 per ton cheaper; prices are subject to withdrawal without notice. **SAL AMMONIAC.**—Dealers' prices are firm and tend to advance; business is fair: dog-tooth crystals, £37; medium, £34; fine white crystals, £19 7s. 6d. per ton, in casks, ex store; slightly less for contracts. **SODA CAUSTIC.**—Makers' prices for contracts for home consumption are as follows: 70 to 72 per cent., £14; 76 to 77 per cent., £14 10s. per ton, in drums, carriage paid; spot lots, about 10s. per ton more. **SODA CRYSTALS (CARBONATE)** are steady at makers' prices of £5 5s. per ton, in bags, f.o.r. works. **SODIUM ACETATE** is steady as quoted by dealers for spot stocks: £21 per ton, in casks, ex store. **SODIUM BICARBONATE.**—Makers' prices for home trade are unchanged: refined, in bags, £10 10s. per ton, carriage paid. **SODIUM CHLORATE** is very steady as quoted and business is fair: quantities, £29 5s. per ton; small parcels, from 3½d. to 4½d. per lb., ex store. **SODIUM HYPOSULPHITE.**—The market is steady and there is a fair inquiry being received: dealers quote pea crystals, in one-cwt. kegs, £15 per ton; commercial quality, £9 5s., in casks, ex store; makers' price for pure crystals to home consumers on contract, £15 per ton, carriage paid to buyer's works. **SODIUM PRUSSIAN.**—Dealers' prices are maintained; business has been better: quantities, 5½d. to 5¾d. per lb.; smaller parcels, up to 6d. to 7d. per lb., ex store. **WHITE LEAD.**—Dry, English, less than five tons, £40; five to 15 tons, £35; 15 to 25 tons, £34 10s.; 25 to 50 tons, £34; 50 to 200 tons, £33 10s. per ton, less 5 per cent., carriage paid; Continental, £1 per ton cheaper; ground in oil, English, less than one cwt., £52 10s.; one to five cwt., £49 10s.; five to ten cwt., £47 10s.; ten cwt. to one ton, £47; one to two tons, £46; two to five tons, £44 10s.; five to 15 tons, £41 10s.; 15 to 25 tons, £40; 25 to 50 tons, £39 10s.; 50 to 100 tons, £39 per ton, less 5 per cent., carriage paid; Continental, £2 per ton cheaper; Convention prices are subject to revision.

## Fixed Oils, etc.

In some directions there has been a little more business moving, chiefly in palm oils, but generally the markets are rather subdued. Values are about maintained at their recent low levels. American turpentine is dull, while linseed oil is fairly steady. **ACID OILS.**—Business is quiet and the market is barely steady: coconut and/or palm kernel, 19s. 9d.; groundnut, 18s. 3d.; soya, 15s. 9d. spot. **CASTOR.**—The market is quoted easier and business is limited: pharmaceutical, 45s. 6d.; first pressings, 40s. 6d.; second pressing, 38s. 6d. (barrels); cases, £4 per ton extra, ex mills, Hull, in not less than one-ton lots; Bombay, 33s. 3d. (drums), c.i.f. **COCONUT.**—The market is about steady, while business is quiet: deodorised, 33s. 6d. (barrels), spot; Ceylon, 27s. (drums), c.i.f. **COTTON.**—There has been a moderate demand this week and the market is about steady: deodorised, 27s.; common edible, 25s.; soapmaking, 24s.; crude, 22s. (barrels), spot. **GROUNDNUT** continues rather quiet, but quoted prices are maintained: deodorised, 37s. (barrels), spot; crude Oriental, 30s. 9d. (drums), c.i.f. **LINSEED** (raw, naked).—The market is dull but fairly steady: on spot, 15s. 3d.; February, 14s. 6d.; March-April, 15s.; May-August, 16s.; September-December, 17s. Boiled oil, on spot, 17s. 9d. **OLIVE.**—Business is quiet, with prices unchanged: edible, 6s. 3d. in drums, 6s. 9d. in tins in cases; B.P., 4s. 8d. per gallon, in 40-gallon barrels. **PALM.**—The market is steadier and there has been more interest shown: Lagos, 19s. 6d.; softs, 18s. 9d.; mediums, 18s. 6d.; hards, 19s. 6d.; bleached, 21s. 9d. spot. **PALM KERNEL** continues unchanged and rather quiet: deodorised, 33s. 3d.; crude, 26s. 3d. spot. **RAPE** has been mostly quiet with the market steady: refined, 35s. 3d.; crude, 33s. spot. **RESIN.**—The market remains rather quiet: B, 11s. 9d.; D, 12s.; F/G, 12s. 9d.; N, 19s.; W/G, 22s. 6d.; W/W, 24s. 9d., ex wharf. **SOYA.**—The market is quoted about unchanged: deodorised, 27s. 6d.; crude, 24s. 6d. spot. **TURPENTINE.**—Business has been quiet and the market is slightly easier. Total London stocks, 23,539 barrels. On spot, 51s.; March-April, 51s. 9d. **WOOD.**—Hankow in barrels on spot is now quoted at 49s., and tends to advance.

## Gum Acacia Exports

BOXALL & Co. report exports from Sudan for 1931 were as follows:—

Destination	1930			1931		
	Jan.-Nov.	Dec.	Jan.-Dec.	Jan.-Nov.	Dec.	Jan.-Dec.
Great Britain	3,625	311	3,936	4,765	330	5,095
U.S.A.	3,498	392	3,890	3,151	163	3,314
France	3,127	182	3,308	2,070	104	2,174
Germany	2,916	142	3,058	1,917	162	2,079
Italy	1,347	46	1,393	1,306	73	1,379
Belgium	1,150	50	1,200	1,281	108	1,389
Japan	681	15	696	866	186	1,052
Spain	341	25	366	356	90	446
Holland	523	37	560	761	69	830
Sweden	240	20	260	690	9	699
Norway	92	15	107	51	8	59
Australia	465	7	472	424	—	424
New Zealand	42	1	43	36	1	37
China	288	8	296	283	49	332
Canada	56	—	56	79	—	79
British India	33	10	43	115	6	121
Denmark	16	2	18	59	13	72
Finland	27	5	32	22	11	33
Poland	2	5	7	69	8	77
Yugoslavia	—	—	—	5	—	5
Rumania	16	—	16	12	—	12
Turkey	12	—	12	18	—	18
Greece	22	1	23	23	2	25
Egypt	128	15	143	101	10	111
South Africa	23	—	23	30	—	30
Dutch Indies	6	6	12	8	—	8
Argentina	33	—	33	60	—	60
Brazil	35	—	35	33	15	48
Uruguay	5	—	5	28	—	28
Mexico	3	—	3	11	—	11
Other countries in America	31	—	31	22	—	22
Other countries	4	—	4	24	—	24
Total, tons	18,787	1,294	20,081	18,676	1,417	20,093

The export figures are made up of the following quantities:—

January-December, 1930	17,306	149	2,626	20,081
January-December, 1931	18,862	251	980	20,093
Difference in 1931	+1,556	+102	-1,646	+12



# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor.

## The Manufacture of Galenicals

SIR,—I would be very much obliged if any of the *C. & D.* readers could give me any information on manufacturing one's own galenicals. I find it difficult to estimate the cost at which I could manufacture them myself. I would also like to know the type of percolator and tincture press recommended. Perhaps some of your readers who manufacture for themselves could give some suggestions.—Yours faithfully,

WALTER COWIE, M.P.S.

123 Mount Road, Rock Ferry.

## The Claims of the Private Chemist

SIR,—In your issue of January 23, "Xrayser," commenting on a statement I made in an advertisement in which the estimated number of prescriptions dispensed in this country was stated to be roughly about 105,000,000 per annum, and that 100,000,000 of these were dispensed by the private chemist, suggested that it would be useful to the craft as a whole if my figures could be proved. Naturally a certain amount of deduction entered into these statements, but the information given below I consider sufficient warrant for them. In 1929 the R.P.U. issued a card in connection with Pharmacy Week on which was the following:—"The chemists of this country dispense over 100,000,000 prescriptions annually, and in addition 30,000,000 family recipes." In addition to the above, the exact figures for the N.H.I. prescriptions for last year (1931) were 54,962,853. As these N.H.I. prescriptions cover only one-third of the population, it is evident that I have underestimated the total number rather than overestimated. With reference to the 5,000,000 which I said were dispensed by the multiple shops, Messrs. Boots lay claim to having handled 4,200,000 during last year in their 900 odd branches. Surely 800,000 would be a fair deduction to make for the other multiple-shop chemists.

Yours faithfully,

J. B. BRAID.

Exmouth.

## A Programme of Pharmaceutical Reform

SIR,—In his letter on "A Programme of Pharmaceutical Reform" (*C. & D.*, January 23, p. 98), Mr. John Humphrey gives six suggested items as a basis of the reforms we ought to work for, but I notice that he says nothing about dispensing under any of the headings. In (3) he suggests the restriction of the supply to the public of all poisonous and potent medicaments to chemists and druggists, but I presume this refers to retail sales. It seems to me that any programme of reform which does not commence by attacking the present system under which dispensing can be done by anybody, qualified or not, is merely side-tracking the real issue. It is true that the six items mentioned may be taken as incidental steps towards the ultimate goal, but in themselves they are merely details compared to the one reform which would put pharmacists at their proper status. No. (5) asks for registration and inspection of all shops where drugs and medicines are sold by retail; why stop at retail shops? There are plenty of places where drugs and medicines are sold (there is really no other word for it) besides shops. Why not render clinics, surgeries, etc., open to a system of inspection as well? But I am afraid that out of the six items there are only two which are likely to be deemed procurable under present conditions—(2) the restriction of the word "pharmacy" as a place-name to the chemist's shop, and (6) registration of all chemists and druggists as pharmaceutical chemists. I am a chemist and druggist and have no particular hankering after the further title; but in view of the claims of

chemists engaged in pursuits other than pharmacy, it might be as well to have a distinctive title which could not be used by anyone except a pharmacist. Of the other suggestions the definition of the business of a pharmacist was left out of the report which led up to the Bill, although there was a splendid opportunity to lay down such a definition; to my mind any definition which was complete would have to make some reference to dispensing by pharmacists. No. (3) was one of the vital amendments of the Society, and may yet be a bone of contention if it is not dropped altogether. Nos. (4) and (5) would be certain to arouse considerable opposition from other traders who have gone in largely for the sale of chemists' goods, and vested interests are very sacred in this country.—Faithfully yours,

CEE & DEE (2/2).

## Bergamot Oil Consortium

SIR,—We feel that the thanks of producers, consumers and essential oil dealers alike are due to Messrs. Samuelson & Co. for their statement on the bergamot oil position which you printed last week. Whether the Messina dealers, or those nebulous "persons who never were, and never will be, concerned with the legitimate trade," will be equally grateful we do not know. As far as we can unravel the position from this rather involved "apologia," producers have been rescued by this miraculous arrangement from unremunerative prices and their plantations from being turned to other unspecified ends. Presumably also a home has been found for part at least of the enormous stocks now existing in Italy. Consumers have been saved from the risk of famine prices at some distant date, and are to be assured of a standard quality. . . . We non-accredited dealers now know where we stand. When sooner, or (possibly) later, we have disposed of the stocks of bergamot oil which we bought from producers at high prices, and have been selling to the consumers at low prices, we shall cease to be the unwanted third party. We do hope, however, that the same position does not exist in the other essential oils which we, in common with Messrs. Samuelson, handle regularly. We should not like to think that the whole of our business is based upon more or less immoral activities. Finally, may we express our regret that, in spite of Messrs. Samuelson's candour, the only item of real interest, namely the maximum price, still remains veiled in profound mystery.—Your obedient servants, for and on behalf of R. C. Treatt & Co., Ltd.,

A. C. STIRLING, managing director.

11 Hart Street, London, E.C.3.

## Mercuric Iodide Tablets

SIR,—The paper on this subject by Messrs. Sage and Stevens published in the *C. & D.*, January 23, p. 84, is certainly interesting, and the letter from Ernest Jackson & Co., Ltd., puts the case of the anomalies exactly as it exists. But a fact of equal interest is that the state of affairs now described is precisely the same as that which existed fifteen, or even perhaps twenty years ago. A paper was published in *THE CHEMIST AND DRUGGIST*, 1920, I, 523, in which the findings are exactly comparable with those just published, even to the existence of the tablets of 8½ gr. total weight referred to in Messrs. Jackson's letter, so that the subject is hardly a new one. It is fairly clear that the general demand for this antiseptic tablet is supplied by 8½ gr. of HgI<sub>2</sub>KI and that a special but less usual demand can be met on the basis of 8½ gr. of the red iodide; there is no use for anything else. If the buyer concerns himself alone with the price and the name on the label, and does not fulfil his function as a chemist of taking pains to know his goods, then the position will always remain bopeless.

Yours faithfully,

EN PASSANT (2/2).



### The Distant Panel Doctor

SIR,—For a good many years now, the National Health Insurance patient has had a grievance which every now and then gets aired in the pharmacy, and reminds me on these occasions that the grievance still exists and is a genuine one. I refer to the inconvenience patients, or rather their relatives, are put to when a doctor calls and then instructs the person in charge to call at his surgery for the N.H.I. prescription form. When the chemist and doctor are, say, a mile apart, and the patient's house between the two, it is easy to realise the unnecessary time wasted in getting the prescription. In the case of a small household it is often not possible for a person to leave the sick charge and make the journey, and a neighbour has to get the medicine, and wait at the surgery for the prescription into the bargain. I once knew a doctor well enough to ask him why he did not carry a prescription-book in his pocket. He told me that the books "spoil his pocket!" But there must be a better reason than this, and, anyway, the insurance patient is entitled to inquiry into his grievance.—Yours truly,

TRUDGE (2/2).

### An Attainment

SIR,—The mere fact that the Proprietary Articles Trade Association has entertained the responsible representative of one of the great chain stores is highly significant. Such an occasion demonstrates beyond doubt that a consummation has been reached in the material activities of the P.A.T.A. organisation, namely, the maintenance of established prices for proprietary goods by distributors, whether wholesale or retail. I wonder if even the most fertile fancy can believe that such an occasion could have been the case forty or fifty years ago; indeed, twenty-five years ago. In actual fact there are only two real ways of selling these proprietary goods, either to allow them to reach the public with only a bare margin of profit or no profit at all, or to maintain a fixed retail price. There is no justification whatever for distributing goods of any kind at unremunerative prices, particularly where these goods are in regular demand; and it says much for the solid methods of the P.A.T.A. that at this late hour its benefits are being recognised throughout the trade. In this year of grace—or trouble—there is not a single distributor who can afford to ignore the large increment in the cost of supplying goods across the counter, and all available percentage of profit must be secured to meet the cost of labour and overhead charges. An absolute freedom in prices for branded goods means, in a general way, no profit—a principle which even the most "advanced" economist would condemn as unsound.—Yours, etc.,

FRANK ENGLISH (3/2).

### Registered v. Unregistered

SIR,—I must thank you on behalf of our Society for publishing an abstract of our annual report in your issue of January 9. . . . It is a peculiar coincidence that in our annual report complaint was made of the "hole and corner" pharmaceutical meetings. This is endorsed by your adverse criticism of the Pharmaceutical Society's last meeting, when you complained of your inability to obtain any information (which in this case might have proved very interesting) and that you "are left in a state of unrelieved ignorance." "Qualified" asks why we have not entered for the pharmaceutical examinations. There are only two reasons, which are contingent one to the other. Up to the year 1880 there were only two advantages in passing an expensive, and to a great extent useless, examination—i.e., (a) dispensing of medical scripts containing any scheduled poisons, and (b) selling a few scheduled poisons. In the year 1900, dispensing instead of increasing had dwindled down to zero, the local doctors having filched the bulk of dispensing specialists' or consultants' scripts for their own patients. . . . Apart from the godsend of N.H.I. scripts,

what is the percentage of chemists to-day who have a dispensing business (or laudanum trade)? In Leeds, with about 500,000 population, you could almost count the dispensing businesses on two hands. We all cannot afford to open out an expensive pharmacy in the centre of the city or in the aristocratic parts, which, after all, are very limited. There are several statements in the letter of "Qualified" that could very easily be answered satisfactorily in full, but I am afraid you would not find us the necessary space. I desire to thank "Xrayser" for the full, frank admission he has made of the serious condition the Pharmaceutical Society are placed in. . . . Mr. H. N. Linstead states, "Memories are short" and goes on to point out that I had omitted to give the answer of Lord Ponsonby, which, Mr. Linstead concludes, is a contradiction of his lordship's previous statement. . . . The following paragraph contained in our report should have been added:—"In all such cases the accuser in a diplomatic manner invariably soothes the outraged feelings of the culprit." This Lord Ponsonby did in a very creditable manner. The substance of his lordship's reply was that he did not mean "all chemists"—only some of them. You will note Lord Ponsonby in his reply no doubt very advisedly used the words "pharmaceutical chemists," i.e., Major men. . . . Lord Ponsonby is fully acquainted with the manner in which the Pharmaceutical Society have carried out the Pharmacy Acts, and he considered the time had arrived when the Pharmaceutical Society should be shorn of their monopoly privilege of persecution. I would further state that we must take the official report of Hansard as being correct. If "Qualified" and any other interested registered man will apply to our secretary, Mr. Norman D. Vine, F.C.A., Pearl Chambers, East Parade, Leeds, enclosing 6d., he will receive a full report of our 1931 annual meeting, together with a free copy of the 1930 report (as long as they last). . . .—Yours faithfully,

W. HUNTRODS,  
Organising Secretary,  
Incorporated Society of Pharmacy  
and Drug Store Proprietors.  
Leeds.

### Sales in Small Quantities

SIR,—It would seem that one of the factors accounting for the gradual drop in returns experienced by most retail chemists is the tendency to split packages and to sell all kinds of goods in small quantities, down to pennyworths. The sale of proprietary children's powders singly dates back for years, while other proprietors of headache and similar powders advertise them at 2d. each and supply the chemist in half- or one-gross boxes. But I am referring more particularly to the breaking of bulk of other lines, which according to the demands of my customers seems to be coming into general practice. It is common to be asked for pennyworths of aspirin tablets, cascara tablets, etc. I have also been asked to supply dried milk foods by the ounce, bath salts and face powder loose for 2d. or 3d., castor oil capsules and glycerin suppositories in ones or twos, and in short nearly all the items supplied up to now in containers of fixed sizes or quantities. The question is whether this is a wise policy; is it advisable to break bulk of all packed goods, whether proprietaries or otherwise, in order to sell such small quantities? I am aware that some of the multiple shops advertise anything from a penny upwards, and to that extent it becomes a question of competition; but I do not think that even they would break bulk of all kinds of things as is being done by some chemists. On the other hand one has to consider the decreased spending power of the public, and whether customers are prepared to lay out from 1s. 3d. to 3s. when they only require a dose or two or whether they get something elsewhere. Many years ago I knew one pharmacy in a poor part of London which was in effect a penny pharmacy, and in such a district a rapid trade was done; but a great many customers had to be served to make up the returns, and the rent and rates were very much smaller than they are to-day.

Faithfully yours,

PENNUTH (11/1).

## Dispensing Notes and Difficulties

### Mist. Cret. c. Opio, N.I.F.

SIR,—I shall be obliged if you can tell me what causes effervescence after standing a few days in mist. cret. c. opio, N.I.F.:—

Cretæ præp. ....	gr. 40
Pulv. tragac. co. ....	gr. 5
Tr. opii ....	gr. 5
Aq. menth. pip. ....	ad 5ss.

I have found that after a few days the corks blow out of the bottles and the mixture froths up over the top.

Yours faithfully,

W. O. R. (14/11).

[When pulv. tragac. co. is added to water and allowed to stand for a few days, especially in a warm place, fermentation takes place. Yeasts, etc., are always present, and with the mucilages of tragacanth and acacia formed, plus sugar, a very good medium for their growth is obtained. The gas evolved is probably carbon dioxide, and this in a thickened medium would have the appearance of effervescence. In mist. cretæ, B.P., cinnamon water is used because of its antiseptic properties, but this mixture will not keep long. The mixture in question should contain ten minims of spirit of chloroform to half an ounce to preserve it for more than two or three days. We should have no hesitation in putting this in, or, preferably, the equivalent quantity of emulsion of chloroform. Peppermint water has practically no antiseptic properties and will not aid in the keeping of this mixture.]

### Carbonate or Bicarbonate?

My invariable rule has always been to use sodium bicarbonate in similar instances to that given in your issue of January 23 (p. 100). Prescribers do not think for a moment about the chemical differences, and less perhaps about the dispensing difficulties involved.—*Antiquus* (25/1).

## Legal Queries

J. H. (28/1).—If the stomach powder is to be sold unstamped, not only by chemists but also by other retailers, all references to its specific action on any organ of the body, as well as any mention of ailments, must be omitted on the label. The use of any expressions or words involving liability which might appear in an advertisement, or in any printed matter whatsoever issued by you, would render the article liable to medicine-stamp duty.

C. M. B. (19/1) has working for him in his business his son, aged twenty. He does not pay his son any wages, but provides him with lodging, food and clothing and gives him a small sum each week as pocket money. Must the lad be insured under the National Health and Unemployment Insurance schemes? [A person employed by his parent "without money payment" does not come within the scope of either scheme. Whether the pocket money is a "money payment" as remuneration for services rendered is a question of fact; the amount of the weekly payment being an important factor. If the pocket money is, in fact, wages, the lad must be insured; otherwise he need not.]

R. G. T. S. (4/1) has been invited to become, in a nominal capacity, a director of a limited company. What would be the extent of his legal liabilities if he accepts the office? ["R. G. T. S.'s" financial liability, in the event of winding up, would be limited by the amount of the share capital which he held. As regards his liability in respect of such matters as making returns to Somerset House, keeping proper books of account, or trading with intent to defraud creditors, for which directors are made personally responsible in certain circumstances, it is unlikely that he would incur any penalties, provided that he was not "knowingly a party to" nor "connived at" the breaches of the law.]

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

M. L. T. (25/18).—FACE POWDERS.—A comprehensive article on the preparation of "Toilet Accessories" was published in the *C. & D. Diary*, 1930, from which the following formulas are taken:—

I		II	
Osmo - kaolin	8 parts	Rice starch	5 parts
Precipitated chalk	8 parts	Zinc oxide	2 parts
French chalk	8 parts	Talcum powder	3 parts
Magnesium stearate	2 parts	Magnesium carbonate (light)	½ part
Light magnesium carbonate	a sufficiency	Orris root	1 part
Colour and perfume	a sufficiency	Colour and perfume	a sufficiency

D. L. (10/80).—The lemon cream apparently originally contained an ingredient which, in the course of time, has been lost. A final trace of a dioxide was found, but whether this arises from the lemon oil after treatment it is difficult to say, and leaves it an open question whether a perborate might not have been added. It may be said to consist of a wax, oil, paraffin and oil of lemon. The following formula would yield a similar preparation:—

White wax	0.5
Arachis oil	2.0
Liquid paraffin	2.0
Oil of lemon	0.1

The camphor cream can be matched with the following:—

Hydrous wool fat	1.5
Soft white paraffin	3.0
Camphor	0.25
Zinc oxide	0.5

A. D. (25/18).—TAR SPRAY.—The tar emulsion is presumably intended as a winter wash for fruit trees, in which case you will find some useful information on the subject in the *C. & D.*, 1929, I, p. 135. Castor oil soap, with or without caustic soda, or Agral W.B. will emulsify the tar. Tar acids are very damaging to plants and shoots of trees, so that the strength of the wash should not exceed 5-6 per cent. Cracking of the emulsion due to hardness of the water may be overcome by the addition of 0.2 per cent. of gelatin.

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," February 15, 1882

### Proposed Amendment of Poison Schedule

Mr. Carteighe moved, Mr. Symes seconded, and it was carried unanimously:—

That by virtue and in exercise of the powers vested in the Council of the Pharmaceutical Society of Great Britain, the Council does hereby resolve and declare that each of the following articles, viz.:

- Sulphuric acid, commonly called Oil of Vitriol;
- Hydrochloric acid, commonly called Spirits of Salts;
- Nitric acid, commonly called Aqua Fortis;
- Solution of chloride of antimony, commonly called Butter of Antimony;
- Carbolic acid;
- Hellebore;
- Nux Vomica and its preparations;
- Vermin killers containing phosphorus;

ought to be deemed a poison within the meaning of the Pharmacy Act, 1868, and ought to be deemed a poison in the second part of Schedule A of the said Pharmacy Act, 1868.



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*Vide* BRITISH MEDICAL JOURNAL, October 10th, 1925; March 6th, 1926.

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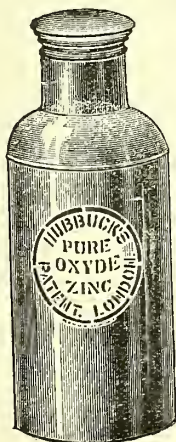
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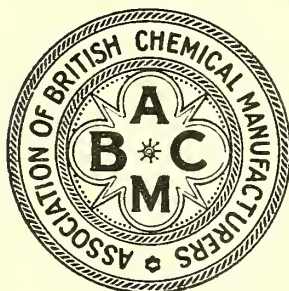


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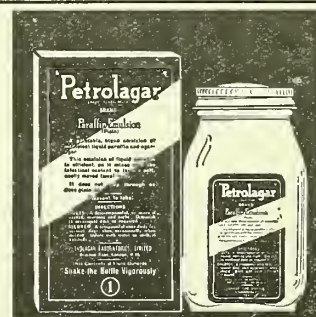
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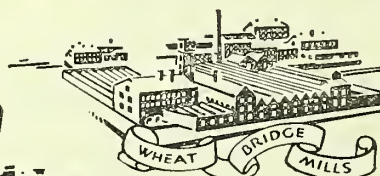
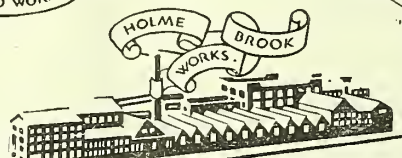
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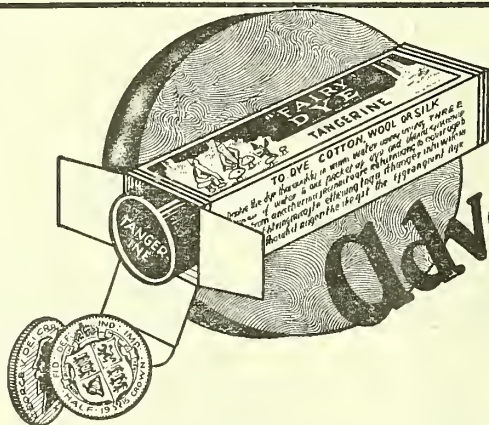
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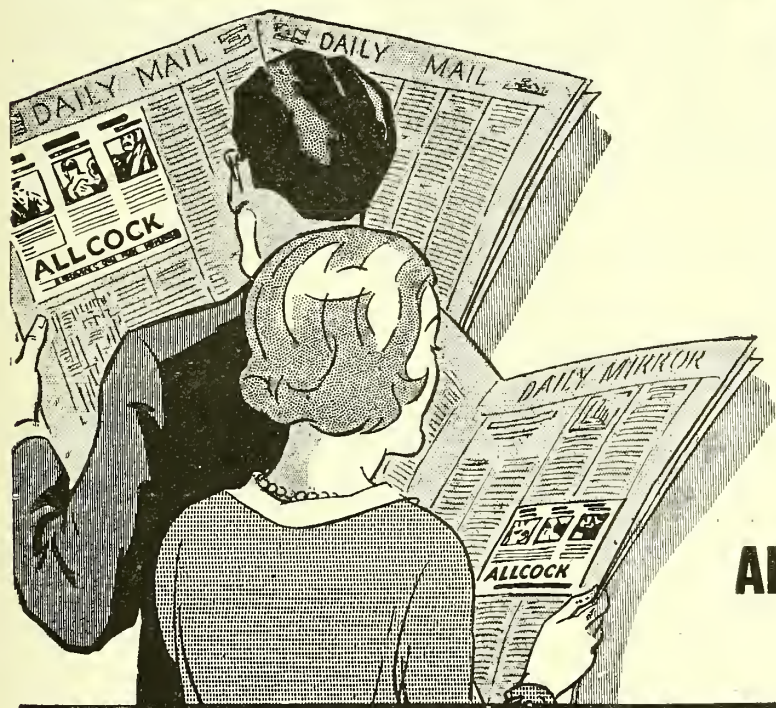
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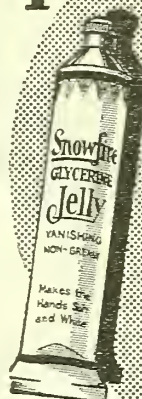
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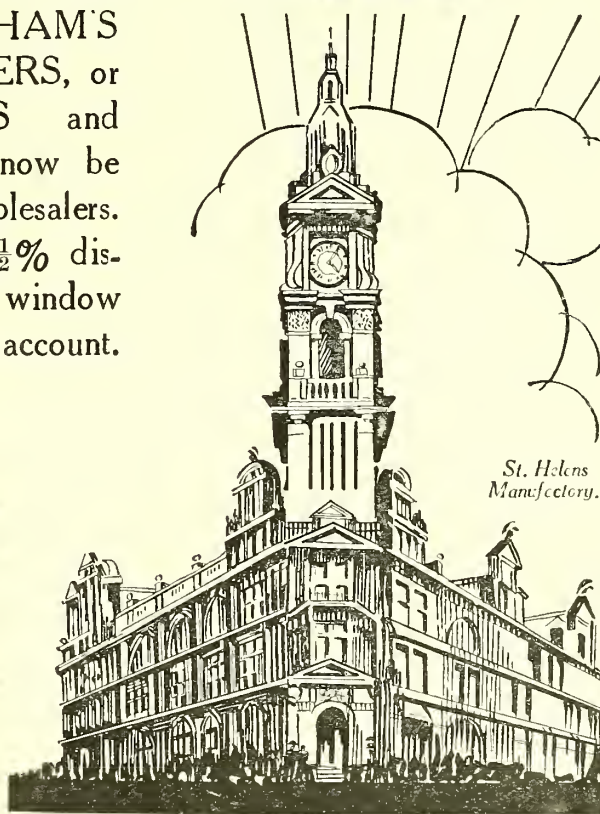
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**BEECHAM'S PILLS LTD.**  
**ST. HELENS, LANCs.**

Telephone: 1230 St. Helens

Telegrams: Beecham St. Helens.

# The Prosperous shop stocks "GRIPS"



Our dealers know from years of experience what a profitable line they have in "GRIPS" Pastilles. Season after season old customers and new ones call for their favourite pastille. The longer the winter, the longer the season for "GRIPS." The profit they carry is a generous one and

the repeats they bring are astonishing. Get samples and prices of these famous pastilles. Give them a little display and our advertising will do the rest. Every one of your customers sees "GRIPS" advertisements in the newspapers or magazines or on the hoardings.

Agents to the Wholesale and Retail Chemists' Trade:

**THOS. CHRISTY & CO.**  
4-12 Old Swan Lane, London, E.C.4.

GET TO

# "GRIPS"

THROAT PASTILLES

Made by Liggett & Sons Ltd., Accrington.

# Rx

YOU WILL BE  
ASKED TO  
DISPENSE

# Arcolax



A natural Vegetable product for the treatment of Habitual Constipation.

We are providing the Medical profession with samples and full information.

Be ready to supply.

IN BOXES RETAIL 3/4

Prepared and extensively advertised by

**ROBERTS & CO.**

Pharmaciens

76 NEW BOND ST., LONDON, W.1

and at PARIS

# Iglodine

THE SAFE AND PURE ANTISEPTIC,

And its Kindred Preparations, are Dependable, Quick-selling and Profitable to the Chemist.

THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

**IGLODINE** the Ideal Home Healer, is Highly Recommended by the Medical Faculty, and Retailers at 10/- per Bottle. **IGLODINE Specialities include**— EMBROCATION, TOILET SOAP, OINTMENT CREAM, THROAT TABLETS, SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL DOUCHE, SALICYLATED: Also FIRST-AID OUTFITS.

P.A.T.A. Photo-Litho Showcards, Window Display Scheme Particulars and Prices from

**THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.**

**Shadforth Prescription (No. 285)**

"Bladder Comforter" is selling remarkably well just now. Chemists who have not already done so, have still the opportunity of taking advantage of our special **FIRST ORDER WINDOW-SHOW TERMS.**

	Quantity	Size	Cost	Sells at	Profit
<b>A</b>	1/- doz.	2/6	13/- less 1/2 = 10/-	15 0	55 1/2 %
	1/2 doz.	2/6	Free	7 6	
<b>B</b>	1/- doz.	2/6	10/-	12 6	55 1/2 %
	1/2 doz.	2/6	10/- less 1/2 = 6 8	10 0	
	1/2 doz.	4/6	Free	5 0	
	1/2 doz.	4/6	9/- less 1/2 = 6 0	9 0	
			Free	4 6	
Monthly a/c. net. Carr. paid.			12 8	18 6	

or any multiples of A and of B.

**Shadforth Prescription Service**  
63 Grove Rd., Bow, London, E.3 LTD



**NEW****CHEMISTS ASKED FOR  
THIS LARGER SIZE . . .**

**S**EVERAL Chemists told us that the 1/- pocket tin should have even a better sale than the 6d. tin. They were right!

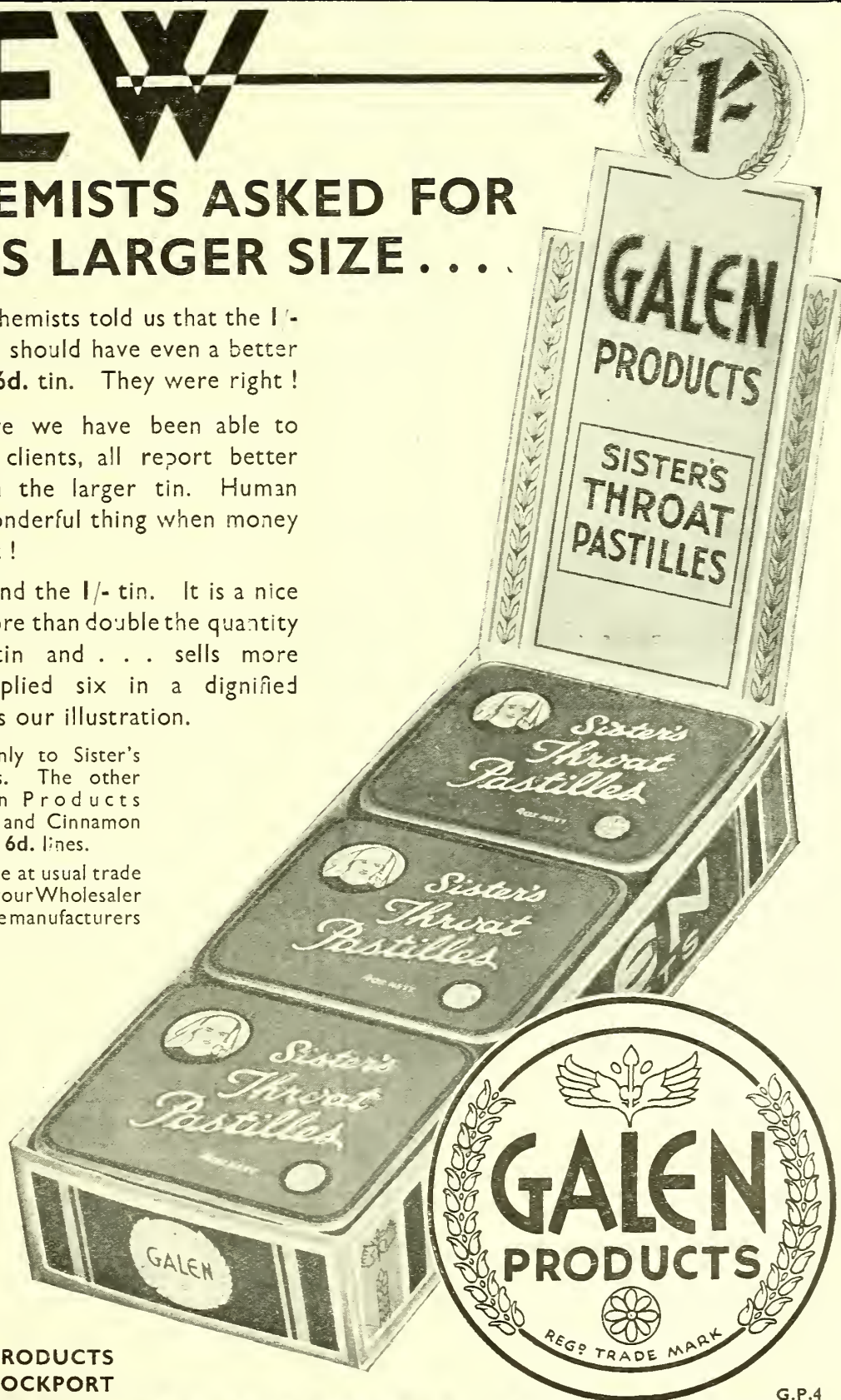
So far, where we have been able to question our clients, all report better business with the larger tin. Human nature is a wonderful thing when money is being spent!

We recommend the 1/- tin. It is a nice size, holds more than double the quantity of the 6d. tin and . . . sells more readily. Supplied six in a dignified display box, as our illustration.

This applies only to Sister's Throat Pastilles. The other popular Galen Products (Mitcham Mints and Cinnamon Tablets) are still 6d. lines.

All are obtainable at usual trade discount, from your Wholesaler or direct from the manufacturers

*Galen purity is  
unquestioned.  
Galen value is  
high amongst  
the best.*



The **GALEN PRODUCTS**  
CO. LTD., STOCKPORT

G.P.4

# THE DEMAND-CREATING FORMULA

MISTOL — MEDICAL — POPULAR — NATIONAL  
EFFECTIVENESS — RECOMMENDATION — PRICE — ADVERTISING

Mistol is now fully qualified for big sales. National advertising is broadcasting to millions the merits of this widely prescribed preparation for the relief of colds and catarrhs.



For Colds, Nose Catarrh, Cough, Laryngitis, Bronchitis, Hoarseness.

Popularly priced at 1/3 and 1/6—Mistol is needed by almost everyone who passes your store.

Display Mistol prominently for maximum sales—for steady winter profits.

SCHEMCO LIMITED 331, 333, 335

## Mistol

STREET, CAMDEN TOWN, N.W.1

*Push the reconstructive food of to-day & tomorrow*  
*Send Post Card for this cut out shoe card or these*

**NUMOL**  
RESTORES HEALTH & VITALITY

NUMOL LTD NEWCASTLE and LONDON

### BUY BRITISH

The National British Government, Sept. 1931, said:

"In their expenditure it is hoped that everyone will be vigilant in making demands for BRITISH LABOUR AND PRODUCTS, so that we do not import one shilling's worth of goods more than is necessary."

HARROGATE BRITISH APERIENT WATER **AQUAPERIA**

(Medicinal)

Try HARROGATE SPARKLING TABLE WATER "FONTALIS" (slightly saline) with your Whisky

**CAMWAL Ltd.** Victory House, Swallow St., Piccadilly, W.1.

TEL: GERARD 574-5

**GLUCOSE BARLEY SUGAR  
BRIMSTONE & TREACLE  
COUGH 2<sup>D</sup> STICKS**  
RAPID AND PROFITABLE SALES  
DEMAND DOUBLED SINCE  
**SIMPKIN'S**

Increased the Dextrose content in all their products

Write for representative to call.

**SIMPKIN'S CHEMISTS' Confectionery** Carfield Works SHEFFIELD

Depots in London, Bristol, Bradford, Leeds, etc.



# BLOCKMALT

the new  
MALT SUGAR  
CONFECTION

with a  
**Quick Turnover**  
Selling through  
Chemists only !

PACKED IN  
SEALED TINS

Increased trading will offset the fall  
in commodity prices. Here is a quick-  
moving product supported by a wide  
range of display material.  
Cash allowances made for sampling.

Write direct for terms to :  
**THE BLOCKMALT CO. LTD.**  
SLOUGH, BUCKS.

## WRAPPED SKILLETS.

FOR EASY  
AND NEAT  
PACKING .

**JAMES TOWNSEND & SONS,**  
EXETER.

London Office : 54, Farringdon Street, E.C.4.

# Big turnover from "Dambroo" BEER!

There is no question or doubt about  
the phenomenal success of "Viggormalt."  
Week by week more and more chemists add  
"Viggormalt" to their best-selling lines.

## VIGGORMALT FOR PROFITS!

The reason for the huge demand for  
"Viggormalt" is not far to seek. "Vig-  
gormalt" is infinitely superior to any  
preparation of a similar nature hitherto  
offered to the public. It makes genuine,  
flavourful, stimulating Beer (Ale or Stout)  
with simplicity and certainty.

Don't miss your share of the increasing "Viggor-  
malt" business. Obtain supplies at once, and  
display them to link up  
with the advertising which  
is appearing regularly in  
national journals.

Distributors :

**FASSETT & JOHNSON  
LTD.**


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London, E.C.1

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MILLING  
MASHING  
BOILING or  
FILTERING**



Technical White  
& Half-White  
Oils

Pharmaceutical  
Petroleum  
Jellies



Tel.:  
**ALBERT DOCK**  
1074 (5 lines)

**MEDICINAL  
LIQUID  
PARAFFIN B.P.**

**SILVERTOWN LUBRICANTS LIMITED.**  
MINOCO WHARF  
WEST SILVERTOWN, LONDON, E16.

Grams.:  
**VOLUMETRIC  
SILVER**

WE SUPPLY

**DECORATED TINS**

FOR PACKING

**OINTMENTS**

AND OTHER PRODUCTS.

SAMPLES AND PRICES UPON REQUEST.

THE CALDICOT TIN STAMPING WORKS LTD.  
CALDICOT, Nr. CHEPSTOW, Mon.

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**OLIVE B.P.  
CREAM SUBLIME  
COTTON B.P.C.  
CASTOR  
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DISTILLED WATER in perfect condition from our own stills. Large plant providing quantities for immediate despatch to all parts. We solicit your enquiries for drysalteries generally.

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BRISTOL & BIRMINGHAM.  
ESTABLISHED OVER 100 YEARS



REGISTERED FOR OUR  
WELL-KNOWN BRANDS  
OF CERESINE WAXES.

# CERESINE WAX

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES  
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BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING POINTS  
OZOKERITE WAX ALL GRADES

**POTH, HILLE & CO., LTD.,**  
6 Lloyd's Avenue, London, E.C.3. Works at  
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# W. B. DICK & CO. LIMITED

26 GROSVENOR GARDENS . . . LONDON, S.W.1  
Telephone—Sloane 3461 (7 lines). Telegrams—"Dicotto, Sower, London."  
GLASGOW LIVERPOOL NEWCASTLE CARDIFF & NEW YORK

*Send for samples and Quotations (Wholesale only)*

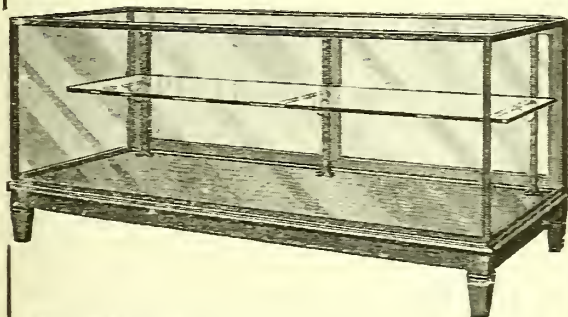
## PARAFFINUM LIQUIDUM B.P.

*All Specific Gravities Guaranteed to remain bright at 0°C*

**B.P. WHITE & YELLOW  
PETROLEUM JELLIES**

**WHITE & HALF  
WHITE OILS**

## GLASS COUNTERS BRING MORE TRADE



No. CD SF 2920. A soundly constructed Display and Serving Counter made in our own works at Holloway Road—6 ft. x 3 ft. x 2 ft. oak or mahogany framing, glazed new  $\frac{1}{4}$ " drawn plate glass top, front, and ends. Clear glass sliding doors at back. Interior fitted 1 row of shelves 12" wide, brown bronze bars and brackets.

### DEFERRED TERMS.

An initial payment of 18.10 secures this counter, and 21 further equal monthly payments of the same amount make it your own complete property.

**£10-15-0**

Cash Price. Ex. Works.

Send for our New List No. C.D.1260.

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451 HOLLOWAY ROAD, LONDON, N.7

City Showrooms: 65-66 FORE STREET, E.C.

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**FINEST OBTAINABLE  
PROMPT DELIVERIES**



**J. M. Mills Ltd**

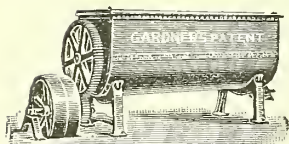
**BROOKFIELD DISTILLERY  
STOCKPORT**

Telephone: Stockport 2396

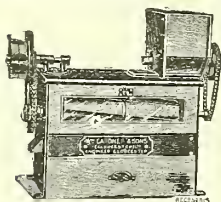
Telegrams: "Phone, Aniline"



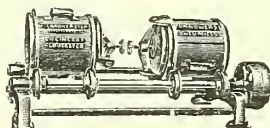
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Patent "Rapid" Mixer.



Patent "Rapid" Sifter.



Gardner Bail Crushing Mill.

for Chemical purposes must be rapid, super-fine, of laboratory accuracy, and absolutely consistent.

Gardner machines perform all these operations in the most efficient way.

They are economical and efficient; a high standard is maintained in the quality and quantity of their output.

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Telegrams: "Gardner, Gloucester."

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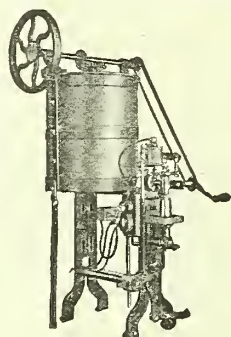
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## Roberts' Original Patent BOTTLE FILLING MACHINES

The record makers in speed filling with cleanliness. Foot-Operated Machines. From £5 5s. Hand-Operated Machines. From 36/-

Soundly constructed, simple in action, easy to clean.  
**NEW PATENT SHALLOW TIN FILLING MACHINES**



"ROYAL"

Automatic CAN FILLING MACHINES, MIXING MACHINES, CORKING MACHINES.

NEW PATENT ACCESSORIES TO "NELSON," "VICTOR" and "NAVY" BOTTLE FILLING MACHINES enable them to be used as Vacuum Fillers, Gravity Fillers or Pressure Fillers at will.

WRITE TO-DAY TO

**ROBERTS' PATENT FILLING MACHINE CO.**

33 Roundcroft Street, BOLTON, LANCs.

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**GLASS CARBOYS  
DEMIJOHNS  
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CARBOY FILTERS**

**R. & H. LEIGH & SONS LTD.  
--- BOLTON ---**

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The 80 pages of this big book are packed with details and pictures of every type of modern machine and appliance for the up-to-date bottling plant. Every bottler should keep a copy in his office for ready reference—and you may obtain your book free and post free by applying to the

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Bottle-Cleaning Equipment*

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Ampoules  
Drop Counters  
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DONE at "Cuckoo" House  
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Tubes & Rods  
Nasal Douches  
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# Petroleum Jelly

White, Yellow, Amber,  
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Pharmaceutical and  
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**PETROLEUM JELLY**  
("SALVO PETROLIA")  
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THE PERFECTION OF PETROLEUM JELLY  
MANUFACTURED SOLELY BY

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23 & 24 EXCHANGE BUILDINGS  
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PACKED IN BARRELS, KEGS OR  
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OTHER GRADES OF  
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WHITE OILS, B.P. & Technical Qualities

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**PETROLEUM DEELINÆ (DEE OIL)**  
THE UNFAILING CURE FOR ECZEMA

**EASILY THE FIRST FAVOURITE WITH  
DANCERS**



1/3 tins - 10/- doz.

2/6 " - 20/- "

Also supplied in Bags,  
economical for large  
"Dance" Floors.

7-lb. Bags 4/- each.  
Retail @ 6/-

14-lb. " 8/- each.  
Retail @ 12/-

28-lb. " 15/- each.  
Retail @ 22/6

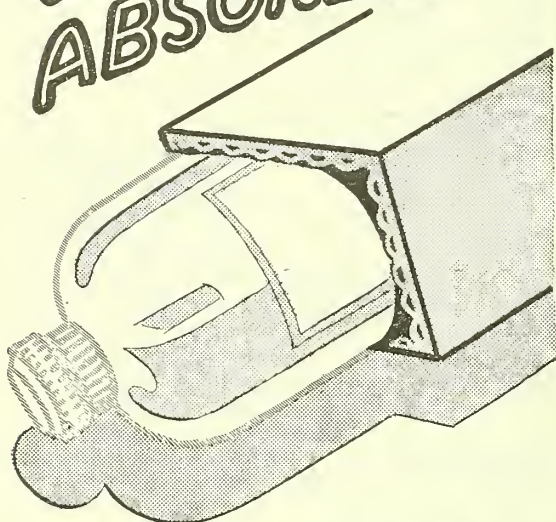
P.A.T.A.



**LOFTHOUSE & SALTMER, Ltd., HULL**



Send out  
your Goods  
in SHOCK  
ABSORBERS!



**CORRUGATED  
PACKING MEANS  
AN INSURANCE  
AGAINST RISK  
OF BREAKAGES**

**Q** IT ADDS 50%  
TO THE NEAT APPEARANCE  
OF YOUR GOODS . . . . .

*Write for Samples & Prices to—*

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**LONDON REPRESENTATIVE: MANCHESTER REPRESENTATIVE**  
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**SPECIALISTS**  
**WILKINSON'S**  
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*We quote, and are quoted,  
for Excellent Workmanship.*

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WESTMINSTER COLLEGE OF PHARMACY.

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PRELIMINARY SCIENTIFIC COURSE	- £1 1 0
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*POSTAL COURSE PROSPECTUS POST FREE  
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**190 CLAPHAM ROAD, S.W.9.**

MANY SUCCESSES IN THE EXAMINATIONS

Your Opportunity to

## QUALIFY IN OPTICS

**PRACTICAL WORK.** Personal tuition in the practical work is a distinctive feature. Students can avail themselves of the practical classes held during examination times when they are in London.

*Expert Tuition for the SIGHT-TESTING DIPLOMAS of the Worshipful Company of Spectacle Makers (F.S.M.C.); the British Optical Association (F.B.O.A.); the National Association of Opticians (F.N.A.O.); or the College of Optics (F.C.O.).*

Write for full particulars—

**G. A. SCURR, M.P.S., F.S.M.C., F.B.O.A., F.N.A.O., B.Sc., F.I.O., F.C.O.,  
50 HIGH STREET, BARNET, LONDON, N.**



# Do You Know That There Are Over 3,000,000 DOGS

*in England, Scotland and Wales?*

*—And Many More Cats?*

*Get this Big  
Trade By Stocking*

## SHERLEY'S DOG & CAT MEDICINES



### QUANTITY TERMS

—are available for SHERLEY'S Tonic & Condition Powders and Worm Remedies—now packed on attractive Display Cards. Also for £2 Assorted Parcels.

Full Literature and Sales-Compelling Show Cards are available. Send a Postcard for particulars to:—

A. F. Sherley & Co., Ltd.  
18 Marshalsea Road,  
LONDON . . . . . S.E.1.

—and that their vast number of Owners are appealed to week after week by large compelling advertisements for SHERLEY Products in both the National and Canine Press. Prices are protected and good profits are ensured. All goods are supplied on terms which eliminate all risk of loss.

## LACTOL AND LACTOL BISCUITS

## RODINE

The **ONLY** Rat Remover

Mr. H. I. Starling, Chemist, Ipswich, writes:—  
“31st December, 1931. The Rodine display proved very effective in stimulating sales. I may add that Rodine is the only Rat Destroyer stocked by me. No further comment is necessary.”

Mr. G. P. Parker, Chemist, Bradford, writes:—  
“2nd January, 1932. During and since the display made of the Rat Models, I have had more regular sales.”

**IT ALWAYS PAYS TO SHOW RODINE.**

*Write for particulars and loan of Models  
to the Sole Maker:*

**T. HARLEY, M.P.S., Manufacturing Chemist,**  
Rodine Works, **PERTH, Scotland.**

## RODINE



Why  
**CATALINE**  
Pays  
to Stock

**BECAUSE** it enjoys the largest sale of any Cattle Medicine Preparation and is on the **P.A.T.A.**

**BECAUSE** it is consistently advertised and all advertisements refer to the Chemist as the source of supply.

**BECAUSE** it is well packed, does what it is advertised to do, and shows the trade a satisfactory profit.

**BECAUSE** we do not employ travellers to call on Farmers or solicit orders at cattle fairs or markets.

One size, retailed at face value, viz.: 3/9 per bott.

*Cash with order terms.*

1 doz. 36/-, 3 doz. at 35/6, 6 doz. at 35/-, 12 doz. at 34/6 per doz.  
CARR. PAID. CASES FREE.

*Stocked by most Wholesale Houses.*

**THE CATALINE CO., LTD., Bristol**



# AN ANTI-FLU CRUSADE IS NOW ON

## STICK UP YOUR STICKERS PUT IN YOUR WINDOW-SHOWS



Business is stirring—health service is required. There are ten times more people needing 'ASPRO' at the present time than at most times. We are alive to it—OUR ANTI-FLU CRUSADE IS IN FULL SWING. Our advertising appropriation has been increased commencing with half pages in the leading dailies—featuring colds, 'flu and rheumatism. Altogether 32 MILLION PEOPLE are being appealed to through over 300 papers. You can obtain TREMENDOUS business NOW by keeping in your 'ASPRO' window-show and putting up window stickers to make contact with this great advertising and sales creating movement.

## HERE ARE SOME OF THE SEASONAL ADVERTISEMENTS NOW APPEARING



'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: GOLLIN & CO. PTY. LTD. ('Aspro' Dept.)  
SLOUGH, BUCKS. Telephone. SLOUGH 608

Made by ASPRO LTD., SLOUGH, ENGLAND.

No proprietary right is claimed in the method of manufacture or the formula.

**'ASPRO'**  
REG. TRADE MARK



# MONSANTO



BRITISH MADE

## CHEMICALS

OF

## QUALITY

PHENOL	CRESOLS	CRESYLIC ACID
CHLOR PHENOLS	CREOSOTE	CHLORNAPHTHALENES
CRESOTINIC ACIDS	DISINFECTANTS	LYSOL
NAPHTHALENE	SOLVENT NAPHTHA	ANTHRACENE
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*We shall be glad to send full list on request*

WORKS:  
RUABON,  
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WEAR TAR WORKS:  
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**MONSANTO**  
**CHEMICAL WORKS LTD**

VICTORIA STATION HOUSE,  
VICTORIA STREET, LONDON, S.W.1

ASSOCIATED WORKS:  
ST. LOUIS  
U.S.A.

Net Profit on 1 doz. @ 9/6 per doz. £1 : 0 : 6

# MARIENBAD ANTI-OBESITY TABLETS

also available as  
"20 days'" slimming  
treatment.

May we have your enquiries  
for Marienbad Tablets  
in Bulk?

We undertake to design  
special packs for  
large quantities

A well thought out  
pack containing 60  
silver coated Tablets,  
weight card & instructions

The Tablets are made to  
an approved formula, and  
the silver coating is un-equalled,  
in appearance, the finest in the Trade

Retail 2/6

## Arthur H. Cox & Co., Ltd

Manufacturing Chemists, BRIGHTON





# THE CHEMIST AND DRUGGIST SUPPLEMENT

28 ESSEX ST.  
LONDON, W.C.2

FEBRUARY 6, 1932.

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## THE CHEMIST AND DRUGGIST SUPPLEMENT

### ADVERTISEMENT TARIFF

ALL ADVERTISEMENTS are PREPAID, so that remittance must accompany instructions in each case. If it be necessary to telephone or telegraph an urgent announcement this may be done, provided the money is telegraphed at the same time.

**BUSINESSES WANTED** and for **DISPOSAL**, **PREMISES TO LET**, **PREMISES WANTED**, **PARTNERSHIPS**, **GOODS for SALE** and **AGENCIES**—6/- for 50 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS OPEN**—6/- for 40 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**SITUATIONS WANTED**—2/- for 18 words; every additional 10 words or less, 6d. (Box No., 1/- extra.)  
**LEGAL NOTICES**, **TENDERS**, **AUCTIONS**, and all specially-spaced announcements, 1/3 per nonpareil line (12 lines=1 inch single column). (Box No., 1/- extra.)  
**MISCELLANEOUS** (Wholesalers') Section for odd and second-hand lots—10/- for 60 words; 1/- for every additional 10 words or less. (Box No., 1/- extra.)  
**EXCHANGE COLUMN** (for Retailers, etc.)—Twopence per word, minimum 2/- (Box No., 1/- extra.)

**THE CHEMIST & DRUGGIST, 28 Essex St., Strand, London, W.C.2**

Telephone: Central 6565 (8 lines). Telegrams: "Chemicus, Estrand, London."

**CLOSING FOR PRESS.**

**ALL ADVERTISEMENTS INTENDED FOR  
INSERTION IN THIS SUPPLEMENT**

**MUST REACH U  
NOT LATER THAN**

**FIRST POST THURSDAY MORNING.**

## ORRIDGE & CO.

**56 LUDGATE HILL, E.C.4**

ESTABLISHED 1846

Telephone No.: CITY 2283

May be CONSULTED at their Offices on **MATTERS of SALE, PURCHASE & VALUATION**

1.—**SURREY**.—General Retail Business, with small Panel; returns approx. £1,500 per annum under indifferent management; net profit about £360; chartered accountant's figures; double-fronted shop, in main road; comfortable living accommodation; new lease; price £1,300; stock and fixtures worth about £1,100. Genuine reason for disposal.

2.—**LONDON, S.E.**—Old-established Business for Sale on account of death; returns last year £1,445; net profit £375; stock and fixtures worth £650; 21 years' lease; rent £85 per annum; sub-let 35s. weekly; price £875, of which £300 can remain over a period to be agreed.

3.—**LONDON (City)**.—Death Vacancy. General Retail Business, situate in excellent position; established about 30 years ago; returns are about £1,400 per annum; during the past few years deceased has conducted the business in a very indifferent manner; single-fronted shop; good stock and nice fixtures; first reasonable offer obtains.

4.—**LEWISHAM**.—General Retail and Dispensing Business, with Kodak Agency; established 1822; returns last year about £1,400; gross profit averages £623; net profit averages £351; double-fronted shop, fairly fitted and stocked; rent £100; sub-let £65; price £650.

5.—**LONDON, N.W.**—General Retail and Dispensing Business for immediate Disposal; returns between £30 and £35 weekly; double-fronted corner shop, well fitted and stocked; rent £92; long lease; price for quick sale £1,300, or valuation terms entertained.

6.—**LONDON, E.**—Old-established Retail and Dispensing Business, situate in local shopping centre; Kodak Agency; returns average £30 weekly; modern-fronted shop, well fitted and stocked; living accommodation; rent £90; held on lease; no reasonable offer refused; valuation terms entertained.

7.—**GOLDER'S GREEN (Near)**.—Medium-class General Retail Business, with Kodak Agency, N.H.I. Dispensing and Sub-Post Office; established many years; returns, present rate, exceed £40 weekly under management; good prices; double-fronted corner shop, well fitted and fully stocked; rent £100 inclusive; net remuneration from Post Office more than pays the rent; offers invited.

8.—**HEREFORD (Near)**.—For immediate Disposal on account of death, good-class Business with average turnover of £3,500 per annum; double-fronted shop in main street; stock and fixtures worth over £2,000; good living accommodation; new lease will be granted at moderate rent; less than value of stock and fixtures will be accepted for a quick sale.

9.—**EASTERN COUNTY**.—Good medium-class Retail Business, with N.H.I.; returns approximately £3,000 per annum; net profit about £700; splendid living accommodation; rent £110; 38 years' lease; sub-let £20 per annum; further details on application.

10.—**SOMERSET**.—Country Retail and Dispensing Business; established 33 years ago by vendor; returns last year £1,800, increasing; net profit £490; estimated value of stock and fixtures £550; rent £29 per annum; house can be had, if required; price for quick sale £650.

11.—**BECKENHAM (Near)**.—Good middle-class General Retail Business, with Kodak and Ucal Agencies and small amount of N.H.I.; returns approximately £2,900 per annum; good profits; chartered accountant's figures available; double-fronted shop, neatly fitted and amply stocked; rent £65 per annum; price asked £1,800, or valuation terms entertained.

12.—**SOUTH COAST HEALTH RESORT**.—General Retail and Dispensing Business, with N.H.I. and Photographic; returns last year £1,613, increasing; stock and fixtures estimated at £720; living accommodation; private entrance and small garden; rent £35; held on lease; price £1,100; good reason for sale.

13.—**NORTH DEVON**.—General Retail and Dispensing Business, with Fancy Leather Trade; returns £2,350; books audited; average net profit £500; large double-fronted shop, well fitted and stocked; price £500, plus value of stock and fixtures, in all about £1,500; it is also necessary to purchase the property.

14.—**BOURNEMOUTH**.—General Retail Business, with Dispensing and Kodak Agency, situate in rapidly growing area; established May, 1929; returns last approximately £2,600; gross profit 40 per cent.; large double-fronted shop, well fitted and fully stocked; living accommodation; garden and shed; lease will be granted or property may be purchased. Further details on application.

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- 4.—NORFOLK.—Neglected Chemist's Business, in central position of busy town; present returns £20 to £22 weekly; plenty of scope; handsome modern corner pharmacy; well fitted and stocked; price £525; worth attention.
- 5.—WORTHING (Near).—Medium-class Business; easily worked, showing steady increase; returns £1,600; net profits £490; low rent; house attached; price £1,100.
- 6.—KENT.—Well-established Chemist-Optician Business; Chemist's returns £50 weekly; Optical, £10 weekly; good profits; self-contained flat over; stock worth £560; price £950, or offer.
- 7.—LONDON, S.W.—Good-class Store and Dispensing Business in busy main road; returns exceed £5,000; net profit £1,000; books audited; price £4,000; bankers' reference required.
- 8.—SOUTH LONDON.—Cash Drug and Photographic Store, with Tobacco; returns average over £4,000; audited figures; splendid position; long lease granted; price £3,000.
- 9.—LONDON, N.W.—Profitable Cash Retail, neglected; returns £30 to £35 weekly, was doing over £40; corner shop; low rent; valuable lease; price for quick sale £1,300.
- 10.—STREATHAM (Near).—Good middle-class Retail; easily worked; scope for increase; returns over £1,200; net profit £360; beautifully fitted shop; good stock; price £850.
- 11.—LONDON (Essex Suburb).—Cash Retail, Photo and N.H.I.; under manager; present returns £1,100 to £1,200; low rent; long lease; house attached; stock worth £300; price £550.

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PARKIN S. BOOTH, Valuer.

\*Phone: City 1261-2-3.

## BUSINESSES FOR DISPOSAL.

- 1.—LONDON, N.W.—General Retail and Dispensing Business, with Kodak Agency. Returns approx. £900. Gross Profit 45 per cent. Rent, inclusive of Rates, £83 p.a. Sublet £65 p.a. Vendor has good reasons for disposal. Further particulars on application (52).
- 2.—HENDON, N.W.—For immediate disposal, well-established Family Retail and Dispensing Chemist's Business, situate in thickly populated district, with P.O. attached. Lease 15 years to run at £100 p.a., exclusive. Further particulars on application.
- 3.—LONDON, S.E.—For immediate disposal, small Wholesale Manufacturing Chemist's Business. Premises on monthly tenancy. Lease will be granted. Returns £2,160 p.a., run with small staff. Opportunity for person with small capital. (65.)
- 4.—LIVERPOOL.—Recently opened retail business in City. Turnover £9 per week. Stock £475. Fixtures and Fittings £46 approx. Rent £125 p.a.; Rates £90 p.a.
- 5.—ESSEX.—Seaside resort; three good retail dispensing businesses, all corner shops, held on long leases at moderate rents, parts let off. Modern fittings, well stocked. Offers invited for Goodwill, Fixtures and Fittings, and Stock at valuation. Further particulars on application.

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# ERNEST J. GEORGE, CHEMISTS' VALUER AND TUDOR HOUSE, WALSALL. TRANSFER AGENT

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\*Phone: Walsall 3774

## Quotations for Stocktaking or for Pricing Chemists' Own Stock Records Supplied on Application.

Correspondence is invited from prospective purchasers relative to the following businesses for disposal:—

- (C1) BERKSHIRE (NEAR LONDON).—Old-established pharmacy occupying leading position; average returns, £4,000-£4,500 per annum; audited accounts available; further particulars to bona-fide prospective purchasers upon application. (Visited and recommended.)
- (C2) LONDON, S.E.—Old-established Drug store and mixed business for disposal owing to family bereavement; returns for last three years average over £4,000 per annum; living accommodation; freehold may be acquired or premises taken on lease. (Awaiting visit.)
- (C3) MIDDLESEX.—Good retail and dispensing business, with average returns (ex-audited accounts) for last three years upwards of £2,000 per annum; good house with all conveniences; main road situation; freehold property also for sale, but lease would be considered. (Awaiting visit.)
- (C4) KENT (COASTAL TOWN).—Pharmacy with optical connection, splendidly situated in busy thoroughfare; present returns approximately £2,000 per annum and increasing; well stocked and fitted; living accommodation available; good reasons for disposing; for a quick transaction the owner will be prepared to negotiate on very favourable terms, and would consider allowing part of the purchase price to remain, if necessary. (Visited and recommended.)
- (C5) LONDON, S.E.—Old-established business with good prescribing and extensive sale for owner's special proprietaries; high percentage net profits (approximately £400 per annum); no N.H.I. at present being carried out, but good scope exists for introduction of same; extensive living accommodation, which could, if desired, be converted into two flats for purposes of sub-letting; property also for disposal; business in present hands for past 25 years; reason for disposal, owing to contemplated retirement. (Awaiting visit.)
- (C6) DERBYSHIRE (SMALL COUNTRY TOWN).—Unopposed retail and dispensing business; turnover approximately £45 weekly; good living accommodation; average net profits for past three years exceed £450 per annum; rent, £57 on lease. (Visited and recommended.)
- (C7) KENT.—Good family business, old-established, showing returns for last financial year upwards of £2,000; net profits approximately £500; rent, £85; lease, 17 years unexpired; good scope for increase. (Visited and recommended.)
- (C8) LONDON, S.W.—Old-established retail and dispensing business, well situated in high-class residential district; present returns approximately £2,500 per annum; net profits, £600; good living accommodation. (Visited and recommended.)
- (C9) LONDON, N.W.—Exceptional opportunity to secure established retail pharmacy showing average returns for last three years of approximately £2,200 per annum, with net profits of about £600; owner selling solely on account of domestic circumstances; for a quick sale an all-in purchase price of £1,350, which includes stock and fixtures estimated at £1,000, will be accepted, alternatively on valuation

terms. The lease has 20 years to run at an annual rental of £92 10s., and there is a good N.H.I. Panel; accountant's figures are available to support returns, etc. (Visited and recommended.)

(C10) SURREY.—Good country business in high-class district; turnover approximately £1,300; net profits, £350; long lease; modern house with all conveniences. (Awaiting visit.)

(C11) SWANSEA DISTRICT.—Good retail business, with living accommodation situated in pleasant locality; scope for considerable increase; reasonable purchase price. (Awaiting visit.)

(C12) SURREY.—Good, medium-class, retail business situated in rapidly growing neighbourhood; premises well stocked and fitted; returns average approximately £1,000 per annum, with excellent scope for further increase. (Awaiting visit.)

(C13) CARDIFF.—Good family and dispensing business, well situated in good class residential district; returns for 1931 financial year upwards of £2,500; optical connection; excellent living accommodation; no near opposition; well stocked and fitted; owner entering wholesale trade, and for a quick sale is prepared to dispose at a sacrifice. (Awaiting visit.)

(C14) BRECONSHIRE.—Good retail business with optical connection; turnover for 1930 financial year, approximately £1,700; net profits, £480; modern living accommodation; rent, £40 per annum; lease 20 years unexpired; no opposition; the owner having purchased a larger business is prepared to dispose at a sacrifice, viz., a nominal sum for goodwill, plus valuation of stock and fixtures. (Awaiting visit.)

(C15) SOMERSET.—Pharmacy situated in rural district, amid healthy surroundings; turnover for 1931 financial year, £1,800; high percentage profits, as expenses are low; exceptionally wide area to draw upon; good scope for further increase under energetic proprietorship; living accommodation available; entirely unopposed; good reasons for disposing, and a quick sale being essential, the owner is prepared to sell at a figure representing little more than the value of stock and fixtures, approximately £650. (Visited and recommended.)

(C16) LIVERPOOL (NEAR).—Old-established retail business for disposal on account of contemplated retirement; average returns approximately £1,600 per annum; net profits exceed £400; good living accommodation; excellent scope for further increase; purchase price approximately £1,000, including stock and fixtures estimated at £700. (Awaiting visit.)

(C17) SOUTHERN COUNTY—CATHEDRAL CITY.—Old-established high-class family and dispensing business; returns for last financial year upwards of £2,550; net profits, £550-£600; excellent living accommodation; long lease at moderate rental; pharmacy well stocked and beautifully fitted; purchase price, goodwill, £500; stock and fixtures at valuation; sound genuine business. (Personally visited and recommended.)



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**ABERGAVENNY.**—For Sale, the Business of Chemists and Opticians carried on under the style of "R. M. Williams & Co.," at 53 Cross Street, Abergavenny; up-to-date stocks; excellent fixtures and fittings; splendid living accommodation. For further particulars apply Harry L. Price & Co., Incorporated Accountants, 47 Mosley Street, Manchester.

**BOW.**—Old-established Business for immediate disposal; 11 years' lease at £58; sub-let at £39; takings £900 (have been £1,200); business must be sold; living accommodation available; first reasonable offer approaching £250 (inclusive) secures; a real bargain for energetic person. P.C.B. 23/6, Office of this Paper.

**EAST COAST.**—Modern Pharmacy in growing seaside resort; double-fronted; in main shopping centre (lock-up); returns average £14 weekly, steadily increasing; under unqualified management; splendid scope for qualified man; good season trade; scope for Optics; rent £36 yearly and rates; price for stock, fixtures and goodwill £295, for quick sale. 130/16, Office of this Paper.

**EAST LANCASHIRE TOWN.**—Better-class Drug and P.M. Stores; double-fronted; established 1913; excellent fittings; Kodak Agency; average takings £1,600 per annum; good Prescribing trade; several profitable Proprietary lines; books audited; splendid scope for N.H.I. and Optics; lease 7 years; rent £48 per annum; sub-lets £32 10s.; price £1,050. No agents. 128/39, Office of this Paper.

**HERNE BAY.**—Established over 3 years; third year takings £1,065; lock-up shop; rent £35 yearly; rates £11; stock approximately £500; fixtures £145; growing district and shopping centre; price £600. L. W. Browning, M.P.S., 5 Broadway Buildings, Herne Bay.

**LANCASHIRE HEALTH RESORT.**—Old-established high-class Dispensing Business, in good residential suburb; Kodak Agency; good opening for Optics; returns average £2,000; will sell freehold property, or lease; owner retiring; fixtures, fittings and goodwill £800; stock at valuation; good house and garden. Apply A. E. Selby, 51 Hoghton Street, Southport.

**LLANDRINDOD WELLS (near).**—Good-class Business for Sale on account of death of owner; returns average £3,500 per annum; stock and fixtures valued for probate at £2,500; good living accommodation; new lease will be granted; in order to effect an early sale the executors are prepared to accept a sum much lower than the value of stock and fixtures; must be sold. Apply "Sacrifice," 198/115, Office of this Paper.

**LONDON (near).**—First-class Retail and Dispensing Business in best position of favourite residential and river resort; returns average £4,300; excellent prices; modern fittings; heavily stocked; price £3,500, or valuation terms arranged; references required. Apply "G. W. R.," 198/116, Office of this Paper.

**LONDON, S.W. (Residential District).**—Good Retail and Dispensing Business; Kodak Agency; good opening for Optics; plenty of Prescribing; long lease; side entrance and garden; price about £600 for lease, stock, fixtures and goodwill; disposing of business owing to illness. 131/10, Office of this Paper.

**SEASIDE RESORT (Lancs).**—Old-established Retail and Dispensing Business for Disposal owing to contemplated retirement; returns have for some years exceeded £40 weekly and there are good prospects of considerable increase over the present figures under energetic, go-ahead proprietorship; for a quick sale the owner will be prepared to accept a reasonable purchase price based on the valuation of stock and fixtures; stock approximately £480. Further information in confidence to bona-fide prospective purchasers upon application. Ernest J. George, Tudor House, Walsall.

**SOUTH COAST (near Brighton).**—Useful little Business, established and in same hands 10 years; rapidly growing pleasant district; at present no dispensing is being done; trade £600 per annum; well-fitted shop with 3 living rooms and bathroom; price £975, includes freehold and good stock. Pengelly & Co., 40 Marlborough Place, Brighton.

**SOUTHEAST.**—Chemist, good position, main road, near new L.M. & S. Railway Station, Southend East, to be opened March next; fine opportunity and living for owner-manager; N.H.I. about 500 per month; Kodak Agency; near sea front; long lease at low rent; average returns over last five years £1,500; owner wants cash; stock and fittings at valuation; no reasonable offer refused. Write P.C.B. 23/16, Office of this Paper.

**TYNESIDE.**—Must sell, vendor purchased business elsewhere; good Counter and N.H.I. trade; Kodak and Ucal Agencies; premises held on lease; house attached, which can be sub-let if desired; for quick sale stock and fixtures at valuation; genuine; no triflers. Full particulars on applying 129/8, Office of this Paper.

**AN** attractive London Suburban Business, at present doing £1,219, but with considerable scope; 17 years' unexpired lease; well fitted and stocked; with convenient house; price £800, or near offer for quick sale. 131/3, Office of this Paper.

**AN** exceptional chance.—Pharmacy; London suburb; main road; unopposed; every convenience; modern equipment; average £15 weekly under management; price, which includes stock and fixtures, £625; rent £100 per year; ample scope for increase under personal supervision; modern living accommodation. 130/40, Office of this Paper.

**CHEMIST'S Business;** thickly populated area; shop and dwelling-house; £500; stock at valuation; low rent; full parts. Apply H. & B. Leno, Uxbridge.

**DRUG Store and Herbalist for Sale;** established 30 years; good reason for sale; weekly rental £1; 3 vacant rooms; a sure living; £120, all at, including £50 stock; suit beginner or elderly man; open to offer for quick sale. Write "M. R.," 7 Galt Street, Limehouse, E.14.

**DRUG Stores, N.W.1;** shop and parlour; rent £70 per annum inclusive; good-class stock; £175; Auto scales, weighing machine and dispensing balance; thickly populated district; trade for first ten months £500; easily trebled by qualified chemist; no near opposition; price £400; good reason for selling; P.D.A. Agency. 132/9, Office of this Paper.

**HERBAL, Drug Store,** main road, Hackney; £8 per week average profit; side and rear entrance, yard, bathroom, two lavatories, 7 rooms; redecorated; two let at 15s., remainder vacant; 30s. per week inclusive; stock, fixtures, etc., £150. "Russell," P.C.B. 23/13, Office of this Paper.

**MODERN double-fronted Shop,** lock-up, main road, near station, within half-hour London; new growing neighbourhood; returns over £1,500 under manager; Family and Dispensing trade; Kodak Agency; opening for Optics; long lease; price £850; genuine certified accounts; good reasons for disposal. 129/17, Office of this Paper.

**PHARMACY for Sale;** established six months; well fitted and stocked; splendid position, main road; a gold mine for qualified man; no near opposition or multiple firms; splendid profits; near Southsea; good living accommodation; centre vast district; thousands population; special reason for disposal; accept best offer over £200; a grand opportunity. 131/4, Office of this Paper.

**PREMISES TO LET.**

**BLACKPOOL.**—Double-fronted Shop, now empty; six years Chemist; good residential and visitors' shopping street; living accommodation. Also other Shops, all in main street. Owner, 189 Church Street, Blackpool.

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**ADDLESTONE, SURREY.**—Attractive Shops in centre of busy and rapidly growing district; excellent opportunity for Chemist Shop (no restrictions); good living accommodation; for Sale or to be Let on Lease. Apply Smith Bros., Claremont Works, West Byfleet, Surrey. 'Phone 264.

**SALISBURY (in best trading position).**—Shop and upper part, with frontage of 13 ft.; present rent £175 per annum; long lease for Sale at reasonable premium; suit Chemist, etc. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tel.: Mayfair 7666.



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### WALSALL EDUCATION COMMITTEE.

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Tenders are invited for the supply of Drugs and  
Dressings to the various School Clinics in the  
Borough for a period of one year from 1st April,  
1932. A copy of the Schedule may be obtained of  
the undersigned. Tenders, endorsed "Education  
Committee Tender," should be forwarded to the  
TOWN CLERK, WALSALL, not later than the first  
post of Thursday, the 18th February, 1932.

The Committee do not bind themselves to accept  
the lowest or any tender. The tender of any firm or  
person paying workpeople less than the minimum  
standard rate of wages current in the district will  
not be accepted.

V. J. MOORE,  
Director of Education.

Education Offices,  
Council House,  
Walsall.  
3rd February, 1932.

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6s. for 50 words or less; 6d. for every additional 10 words  
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CHEMIST wishes to purchase sound Business for cash, in or  
near Manchester. Send full particulars (in strict con-  
fidence) to 129/9, Office of this Paper.

LONDON OR SOUTHERN COUNTIES.—Genuine Business  
required, with a turnover of not less than £2,500 per  
annum, preferably to include freehold or good leasehold  
property; must be capable of full investigation; purchase price,  
including property, to be about £3,000. 198/117, Office of this  
Paper.

## SITUATIONS OPEN.

### RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words  
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BRADFORD.—Qualified Assistant, with good Counter experi-  
ence, knowledge of Window-dressing and Photographic,  
wanted shortly; good-class business; salary to commence £4  
weekly. State age, references, etc., to 130/20, Office of this  
Paper.

BRIGHOUSE.—Wanted, smart male Assistant; unqualified.  
Also female Assistant for Drug and Dispensing Depart-  
ment. Apply, giving age, experience and wages required, not  
later than Monday, February 15, 1932, to Brighouse District  
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BRIGHTON.—Branch Manager, 30-40, preferably married;  
must have highest references and be capable of increasing  
neglected business; reasonable salary and commission on in-  
creased turnover; preference given to those willing to invest.  
Please apply in first instance by letter, enclosing full par-  
ticulars, photo and copies of recent testimonials. 151/56,  
Office of this Paper.

LEEDS INDUSTRIAL CO-OPERATIVE SOCIETY, LTD.,  
require the services of a young, unqualified Assistant (male)  
for the Central Department; must have passed Part I of the  
Qualifying Examination and possess a sound knowledge of Photo-  
graphy and Salesmanship. Applications should be addressed to  
the Secretary, 10 Albion Street, Leeds, endorsed "Pharmacy."

LIVERPOOL.—Required shortly, Manager; qualified; experi-  
enced Salesman, Dispenser, Window-dresser; thorough  
practical knowledge D. & P., Enlarging; permanency right man;  
progressive salary; first-class references essential. Full par-  
ticulars, references, salary first letter, 132/7, Office of this Paper.

LONDON.—Junior Qualified Assistant required shortly. Apply,  
by letter only, stating age, experience and salary required,  
to the Secretary, Shadforth Prescription Service, Ltd., 49 King  
William Street, London Bridge, E.C.4.

LONDON, N.—Qualified Manager (age 25-35) for branch  
(poor to medium class); keen worker who is prepared to  
take live interest in increasing turnover, practical Photographic  
knowledge essential. State age, height, experience, salary  
required. Pierson, 94 Queen's Road, W.2.



**LONDON, N.W.**—Qualified lady or gentleman required as Superintendent; any age; short hours and very light duties. State usual particulars, together with salary, which must be strictly moderate. 130/8, Office of this Paper.

**LONDON, N.W.**—Qualified Assistant, married, and not over 30, required for high-class Dispensing and Family business; must be competent and trustworthy; unfurnished flat provided. Full particulars, stating salary, etc., to "North," 131/12, Office of this Paper.

**LONDON, N.W.**—Qualified Manager, age 30-40, required for branch; must be good Window-dresser, keen and obliging. Apply, stating age, experience, references, and salary required, to Ascotts Pharmacies, Ltd., Head Office, 48 and 50 Durham Road, Finsbury Park, N.7.

**MANCHESTER.**—Qualified Branch Manager required for good Counter and Dispensing business; must be good Window-dresser and of smart appearance; Optical qualifications essential. Please state full particulars, stating age, salary, etc. Applications unanswered in seven days respectfully declined. 129/16, Office of this Paper.

#### MEDICAL DISPENSING.

##### ST. MARY'S HOSPITAL, W.2.

**WANTED**, a Junior Assistant Dispenser (male); not over 30; Minor qualifications; salary £200 per annum, with luncheon and tea; hours 9 to 5, but every fifth week 9 to 7; Hospital experience desirable. Applications, stating age and experience, accompanied by not more than three testimonials, to be sent to the Dispenser.

**DISPENSER** required for Departmental Stores; Minor qualification essential. Write, stating age, experience, and salary required, to Staff Manager, Welwyn Stores (1929), Ltd., Welwyn Garden City, Herts.

**FULLY** qualified Chemist required shortly as Manager for branch business, age about 25 years, single, and of good appearance; must be capable Counterman and first-class Window-dresser; an excellent opportunity for energetic and up-to-date man. P.C.B. 23/15, Office of this Paper.

**GOLDEN Opportunity.**—Wanted immediately. Qualified Pharmacist, unmarried, not afraid of work; assist in developing neglected business; prominent position popular South Coast resort; must be ambitious, keen, good Salesman, take sole charge; excellent prospects right man; small commencing salary and bonus; integrity and personality essential; photo if possible. No Scotch or Welsh applications considered. 130/29, Office of this Paper.

**MANAGER** (qualified), smart man with previous experience in modern business, able to control staff, keen Salesman and smart Window-dresser. All details, age, experience, salary, and when free to 198/111, Office of this Paper.

**QUALIFIED** Manager (married) for modern Family business; good Counterman; able to make attractive window shows essential. State salary, age, experience, and when free to 198/112, Office of this Paper.

**QUALIFIED** Assistant required; only those able to commence duties at once need apply. State age, experience and salary (which must be moderate). Kelynnack, 144 Queen's Road, Hastings.

**REQUIRED**, energetic, qualified Manager, Retail Branch in multiple shop business, supported by large Manufacturing, Wholesale Chemists; salary, bonus on own turnover, dividends; investment £500 to £500. preference shares; prospects promotion; assured future. P.C.B. 25/21, Office of this Paper.

**UNQUALIFIED** Assistant required; good Salesman, neat Dispenser, and capable of sharing responsibility in building up business; must have had some Photo experience and knowledge of Cine Photography an advantage. State salary, usual particulars, and name of last two employers. 130/9, Office of this Paper.

**WANTED**, qualified lady Dispenser for Doctors' Surgery. Apply, with references, to Drs. Nash, Birks and Nash, 2 Harpur Place, Bedford.

**WANTED** in London General Hospital, Assistant Dispenser (qualified female). Apply, stating age, experience and salary required, to Box 400, 8 Serle Street, W.C.2.

**WANTED**, Dispenser (woman), evenings only (5 to 9), for busy East-End Panel and Private practice; must be quick and experienced; salary £1 15s. Apply, letter only, 235 Roman Road, E.3.

**WANTED**, lady Assistant; unqualified; accurate Dispenser. Give fullest particulars as to experience, age, references, salary required, photo (if possible). 130/13, Office of this Paper.

#### REPRESENTATIVES

Required with sound connections in London and Suburbs, to carry several established lines on a commission basis. Must already be representing reputable Houses.

**T. & L. LTD. 4 Racquet Court, Fleet Street, E.C.4**

**WANTED**, vicinity of Manchester, Registered Chemist for small Company; comfortable berth. Apply 130/28, Office of this Paper, giving full particulars, age, height, copies of references, wage required.

**WANTED**, a fully qualified man with Optical Diploma; London area; highest references essential. 131/2, Office of this Paper.

#### WHOLESALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A REPRESENTATIVE**, with connection amongst Buyers of large Departmental Stores and Drapery Houses with Toilet Departments, required by old-established manufacturing firm to sell nationally advertised Dentifrices; liberal commission terms. Particulars and references to 198/113, Office of this Paper.

**ADVERTISING** Assistant wanted by Wholesale Chemists for trade and medical printed matter; previous advertising experience necessary; age about 25 to 30; qualified or unqualified. State salary required and experience to 198/106, Office of this Paper.

**ATTRACTIVE** quick-selling and profit-earning Novelty offered as additional line to men already calling Chemists, etc., on very generous commission terms. Apply, giving full details, including territory covered, to Dept. K.W., Alpco, 173 Lower Clapton Road, London, E.5.

**COST** Clerk for Packed Specialities with some experience; age 20-25. Write, giving full particulars and salary required, 198/105, Office of this Paper.

**LIVERPOOL AND DISTRICT.**—Traveller required to represent a Manchester Druggist Sundries House; must have practical experience and sound connection; give full particulars, age, experience, and reference; resident on the ground preferred, but not essential. 130/12, Office of this Paper.

**MANUFACTURING** Chemists and Toilet Specialists require experienced man for maintenance and minor erections of plant and machinery, also small gas-fired boiler; Carpentering experience an advantage. Apply 129/28, Office of this Paper.

**REPRESENTATIVE** (good salesman) for Northern England, Scotland and Ireland; Surgical Rubber Goods; Wholesale and Hospitals; salary and commission. Apply (in confidence) to 128/20, Office of this Paper.

**REPRESENTATIVES**, calling on Perfumers, Soap Makers, Manufacturing Chemists, Confectioners, Mineral Water Manufacturers, are required in all parts of Great Britain (London excepted) by old-established Manufacturers of Essential Oils and Raw Materials for Perfumery to carry their goods as additional line; liberal commission terms. Full particulars (in confidence) to 198/110, Office of this Paper.

**REPRESENTATIVES** (four), with good connections among Hairdressers, Chemists, Stores, for London area wanted at once for the subsidiary British company of a well-established and leading French concern making Cosmetics, etc.; preference will be given to applicants willing to invest; interesting and remunerative proposition to energetic men. Write, with full particulars and in strict confidence, "J. M. L." 198/108, Office of this Paper.

**REPRESENTATIVES** wanted in Birmingham, Manchester, R. Wales, Newcastle, with first-class connections among Chemists, Hairdressers, Stores; applicants must reside within territories, and preference will be given to those taking a small interest in the business; staff will be completed early in February. Therefore write fully and in strict confidence to "L. L. L." 198/109, Office of this Paper.

**REQUIRED**, by a live firm of Manufacturing Chemists, energetic Salesman calling on Chemists, to sell their special packed lines, Birmingham and district; remuneration on commission basis; no objection to other non-competitive lines. Application by letter, with full details, will be confidentially treated. Watkins and Laing, Ltd., 429b King's Road, Chelsea, London, S.W.10.



**SALES MANAGER.**—One of the leading and well-established French Manufacturers of Cosmetics, etc., in view of the immediate establishment in Great Britain of a British limited subsidiary company and factory, requires the assistance of a competent Sales Director; good knowledge of London area and provinces necessary; goods will be nationally advertised; Applicants must be prepared to invest as a guarantee of good faith and good services. Full particulars, qualifications, previous experience, and full details (in confidence), by first letter. Replies to "L. E. C.," 198/107, Office of this Paper.

**THERE** is a vacancy for a first-class Representative to call on Chemists. Applications will only be considered from those who have a thorough knowledge of Drugs and Galenicals and can, in addition, show successful sales record in these lines. Apply, by letter only, to Hough, Hoseason & Co., Ltd., Bridge Street, Manchester.

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**A.A.A.**—QUALIFIED; young; experienced all branches; live-wire Salesman; Locum or permanency. Taylor, 20 Cowper Street, Leeds.

**A.A.**—QUALIFIED; 25; first-class experience, London and provinces; Manager or Assistant. Gordon, 103 Listria Park, N.16.

**A**—UNQUALIFIED; 40; 5 ft. 8 in.; reliable; experienced; Locum preferred; abstainer; disengaged. Alexander, 189 Southampton Street, S.E.5.

**A** LOCUM; long or short period; qualified; long experience in all branches; active; excellent references; terms moderate. "S. C. J.," 54 Priory Road, West Hampstead, N.W.6. 'Phone: Maida Vale 8212.

**A** QUALIFIED lady, 21, tall, experienced, well recommended, seeks post. Please write Barnard, 32 Kent Road, N.21.

**A**CTIVE; elderly; qualified; tall; full charge; go anywhere instant; fully experienced; single; good address. J. Dallas, 7 Gill Street, Nottingham.

**A**DVERTISER requires post as Doctor's Dispenser and Book-keeper; highly recommended; thoroughly conversant with surgery routine, dressings, etc. 131/8, Office of this Paper.

**A**N active North of England Chemist, with 7 years' all-round experience, desires a change to position with more scope; will manage or assist; good appearance; 6 ft.; highest references; moderate salary. Apply McCrum, Smith, Ltd., Chemists, Whitby.

**A**N experienced qualified London Manager wishes to negotiate similar position, starting February 29. "Chemist," 57 Sutherland Street, S.W.1.

**A**S Locum or general help; over 30 years' experience; heavy Panel, Counter, Books, Buyer, Salesman, Prescriber; neat, clean and quick worker. "G.," 130 Scott-Ellis Gardens, N.W.8.

**A**S Locum, temporary or permanent; unqualified; 20 years' experience; conscientious and trustworthy. P. C. Portnell, 35 Atherfold Road, Stockwell, S.W.9.

**A**S General Assistant (lady); Stock, Toilet and Counter; good references. "F.," 53 Chichester Road, Kilburn, N.W.6.

**A**SSISTANT, unqualified, male, 21, height 5 ft. 10 in., requires situation immediately; good Dispenser and Counter-hand; excellent references; free at short notice. H. Philip Dowell, Caradog Cottage Llanfairfechan.

**A**SSISTANT, 22, unqualified, desires post; Eastern Counties preferred, but not essential; 6½ years' seaside and country experience; good Dispenser and Counter-hand; Photographic and Window-dressing knowledge; well recommended. 129/18, Office of this Paper.

**A**SSISTANT, unqualified, seeks berth in or near S.W. London; N.H.I., Windows and Photography; moderate salary. "T.," 62 Queensmill Road, Fulham Palace Road, S.W.6.

**A**AVAILABLE for immediate service; gentleman, experienced in all branches Chemist and Photo, requires Managership; excellent credentials; 5 ft. 4 in.; 39. 107 Kimberley Road, W. Southbourne, Bournemouth.

**B**RANCH Manager or qualified Assistant; age 24; tall; 8 years' thorough all-round West-End and provincial experience; Photography and Optical knowledge. Platt, 23 Fairway, West Wimbledon.

**C**HEMIST requires position of trust, any capacity; 5ft. 4in.; 39; French, Continental and West-End experience 20 years; free for immediate service; excellent credentials; interview or post. Harrison, Tedjo, Molesey Park Avenue, E. Molesey, Surrey.

**D. & P.**—Experienced Works Manager, possessing initiative and ambition, desires change; capable of full control in any class of work; all-round commercial experience. 129/13, Office of this Paper.

**D**ISENGAGED.—Pharmacist as Manager or Superintendent; elderly; excellent testimonials; active; moderate salary. "M.P.S.," 15 Bantock Avenue, Wolverhampton.

**D**ISENGAGED (disposal of business); qualified; 35; married; 5ft. 11in.; experienced all branches; reliable; excellent references; locum or permanency; anywhere. "Chemist," 131 Holmich Road, N.16.

**D**ISPENSER (lady), Hall qualification, nine years' experience, requires post, Doctor's or Hospital. Address: F. G. Mann, 64 Emscote Road, Warwick.

**E**FFICIENT worker, homely, obliging, and well experienced in each department of the business; sound references. "Honest," 130/3, Office of this Paper.

**E**LDERLY, experienced Pharmacist, disposing of business, desires light engagement as Superintendent or part time in country town; South-West, South or Midlands; highest credentials. "Alpha," 128/33, Office of this Paper.

**E**XPERIENCED Pharmacist, 30, married, disposing of his own business, desires responsible post in a high-class pharmacy (Southern Counties); would undertake opening a new business or branch. 132/6, Office of this Paper.

**G**ENTLEMAN, M.P.S., 28, 6 ft., good appearance and address, as Manager or Senior in good-class pharmacy; excellent experiences Provinces and West End; last Managership 4 years; smart Dispenser, Salesman and Window-dresser, Photographics; keen; energetic; highest credentials; disengaged. 131/14, Office of this Paper.

**H**IGH-CLASS business only; qualified lady; 23; excellent experience private Dispensing, Toilets, Photography, expert Window-dresser; interview anywhere; permanency. 131/31, Office of this Paper.

**J. B. FRANCIS**, Chemist, Tenby, recommends with every confidence his Assistant, H. S. Lewis, who desires post in or near London. Apply c/o above.

**J**UNIOR Assistant (Part I), 21, tall, of good appearance, experienced in high-class business, requires situation in similar Dispensing business; London preferred. Ross, 21 Belgrave Road, Longton, Staffs.

**J**UNIOR Assistant (girl); 20 years; keen; energetic; pleasing personality; excellent testimonials; Stock-keeper and good Counter-hand. 128/36, Office of this Paper.

**J**UNIOR, disengaged, desires experience with Dispensing Chemist; tall, of good appearance; London, N.W., preferred. 131/38, Office of this Paper.

**K**EEN Salesman; qualified; 25; effective display; excellent Dispensing experience; Manager or Assistant. D. Vaughan, 6 High Street, Epsom.

**L**ADY; qualified; 25; 4 years' Retail experience, N.H.I., 12 months' Hospital Dispensing; moderate salary; London, country, seaside; references; permanency. Scarle Tripp, 39 Westbourne Gardens, Bayswater.

**L**ADY Pharmacist, experienced Manageress, with Photographic experience, Scotch, seeks post, London or suburbs; Locum or permanency. 127/14, Office of this Paper.

**L**ADY Cashier-Book-keeper, aged 30, desires post; 10 years' experience in West End Chemist's; excellent references. P.C.B. 23/9, Office of this Paper.

**L**ADY, unqualified, requires temporary or permanent position; 7 years' Dispensing and general experience. "D.," 14 Tennyson Avenue, Twickenham.

**L**ADY (Hall), thoroughly experienced Dispensing, Counter, Book-keeping and approved Window-dresser, requires post with good-class Chemist. 129/40, Office of this Paper.

**L**ADY, M.P.S., requires whole, locum or part-time post; good general experience. "Pharmacist," 252 Elgin Avenue, W.9.



**LADY** Dispenser, Hall qualification, requires post; disengaged. Write "L. H.," 41 St. Augustine Street, Taunton.

**LADY** (Hall Certificate); good Counter and Dispensing experience; excellent references; Locum or permanency; disengaged. 131/25, Office of this Paper.

**LOCUM**; qualified; registered R.P.U.; disengaged; London or suburbs preferred. Lane, 2 Manton Way, Galpen's Road, Thornton Heath.

**LOCUM**; M.P.S.; elderly; good experience; excellent references; moderate terms; period or permanent; disengaged February 8. J. S. Wellburn, c/o Mrs. Brock, 10 Leyland Road, Lee, S.E.12.

**LOCUM**; elderly; qualified; replace manager or dispenser in business or institution during enforced absence or holidays; well recommended. Thomas, 37 Downs Road, Clapton, E.5. Phone: Clissold 1448.

**MANAGER**, tall, young, highly trained in staff control, buying and advertising, desires change; used to modern methods of display and salesmanship; good references. 128/32, Office of this Paper.

**MANCHESTER DISTRICT**. — Young M.P.S.; disengaged; excellent all-round experience; tall; good appearance. "W. A.," 70 Cowesby Street, Moss Side.

**MESSRS. KEMP & ELMITT**, Chemists, Lincoln, recommend Mr. J. Wombell as a Junior Assistant; post in Midlands preferred.

**M.P.S.**; 20 years' experience; disengaged; good references; as "Superintendent," Dispenser, or Locum; moderate salary. "Pharmacist," 3 Tomlin's Terrace, E.14.

**M.P.S.**, lady, 21, tall, Square trained, seeks experience in Retail Pharmacy; good personal references. "The Garth," Rickmansworth, Herts.

**M.P.S.**, thoroughly experienced sound business man, wants responsible management; whole-hearted service for square deal; exceptional record and references; married; total abstainer. "Luminal," 11 Market Street, Crewkerne, Som.

**M.P.S.**; 23; energetic; thoroughly experienced all branches pharmacy; well recommended; will accept moderate commencing salary if prospects of advancement; available at once. "Pharmacist," 14 Bexley Mount, Harehills, Leeds.

**M.P.S.**, 29½, 14 years' experience all branches pharmacy, desires permanency; keen; conscientious; trustworthy. Terms. 130/24, Office of this Paper.

**M.P.S.** would appreciate offers, North London or near, with prospects; 31 years; married; high-class apprenticeship; all-round managerial experience, Prescribing, Photographic, Counter; steady; business builder; ultimate succession considered. 131/22, Office of this Paper.

**PERMANENT**, temporary or part time; London district preferred; unqualified (male); 34; 9 years one position; keen; trustworthy; excellent references; disengaged; Counter or Dispensing. 130/33, Office of this Paper.

**QUALIFIED**, 28, single, desires permanency as Manager or Assistant; good appearance, references and experience; 5 ft. 10 in.; London or Reading preferred. Lewis, 20 Meteor Street, London, S.W.11.

**QUALIFIED**, 23, 7½ years' experience in company and private pharmacy, desires position in London or suburbs; excellent references. "M.P.S.," 18 Sherringham Avenue, Tottenham, N.17.

**QUALIFIED** lady, 25, experienced, requires situation, Doctor, Chemist or Hospital; London or district; moderate; interview if required. 129/22, Office of this Paper.

**QUALIFIED** M.P.S.; middle-aged; active; disengaged; any capacity; recommended; moderate salary. "S.," 32 Steyne Gardens, Worthing.

**QUALIFIED**; 35; married; first-class Dispensing experience; 3 years Manager; excellent references; disengaged (disposal of business). Hardy, 4 Regent Place, Leamington Spa.

**QUALIFIED** lady, 13 years' London and provincial experience, company and private shop, seeks post; London preferred. "Chemist," 5 Bistern Avenue, Walthamstow, E.17.

**QUALIFIED** Pharmacist, Public School education, seeks position; temporary or permanent. Grantham, 106 Queen's Road, Peckham.

**QUALIFIED** Assistant, young, requires situation; capable Counter-hand, Salesman, Dispenser and Window-dresser; good references. Goodman, 10 Woerth Place, Leeds.

**QUALIFIED** lady seeks post; Locum or permanency; any district; experienced all branches Retail trade; Hospital preferred, not essential. 131/11, Office of this Paper.

**QUALIFIED** lady, Scot, desires post; qualified 1927; London and provincial experience; mauage branch; excellent references; disengaged. 131/17, Office of this Paper.

**UNQUALIFIED** Assistant; 23; trustworthy; reliable Dispenser; West-End, seaside and N.H.I. experience; good Window-dresser; London preferred. "C.," 44 Turneville Road, W.14.

**UNQUALIFIED**; 24; first-class Dispensing experience, City, West End and country; good references; disengaged. C. Hunter, 7 Redburn Street, S.W.3.

**YOUNG** lady desires immediate engagement as Junior Dispenser; North or Midlands preferred; good references. Fallows, 54 Wilton Road, Bexhill-on-Sea.

### WHOLESALE.

2s. for 18 words or less, 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

**A**N energetic, smart man, 25, requires change; all-round experience in Galenicals Manufacturing; Lancs. 128/21, Office of this Paper.

**A**N experienced Representative, all London connection, accustomed to Drugs, Toilet Goods, etc., requires engagement with well-known house. 131/26, Office of this Paper.

**C**APABLE young man, very trustworthy and gentlemanly, with 4½ years' Retail experience in good-class Chemist's shop, desires progressive situation with Manufacturer or Wholesaler; would consider position as Representative; willing to learn anything; small salary to commence. 128/30, Office of this Paper.

**D**OES your business need an executive who has successfully handled specialty lines as Travelling Salesman, Sales Manager and General Manager? Extensive home and Colonial experience. Advertiser has devised and carried to a successful completion many selling campaigns. P.C.B. 23/7, Office of this Paper.

**E**XPERIENCED, gentlemanly Assistant, 30, unqualified, good appearance, desires progressive position with first-class firm with view to representing them, home or abroad; 12 years' Retail experience; 2 years South Africa; interview by appointment. 129/6, Office of this Paper.

**E**X-BUSINESS man, good appearance and address, 20 years' experience, seeks post with established firm; owner car, driver; London, South Coast, West England; excellent references; guaranteed expenses and commission; what offers? "Energetic," 205 Wimbledon Park Road, Southfields, S.W.

**L**ADY M.P.S., B.Sc.Pharm., experienced in analysis of Foods and Drugs and Chemicals, highest references, seeks appointment; permanent or temporary. "Analyst," 132 Hanover Road, N.W.10.

**R**EPRESENTATIVE, calling on Chemists, Hairdressers and Stores, desires further lines. 130/14, Office of this Paper.

**R**EPRESENTATIVE, covering Lancashire and Cheshire, requires additional good-class Pharmaceutical lines on commission basis. 131/6, Office of this Paper.

**S**COTTISH Representative, 10 years' experience Chemists, Hairdressers, Stores, excellent references, seeks post with established house; salary, expenses, commission basis. 131/29, Office of this Paper.

**T**RAVELLER, young, well educated, excellent connection with Retail Chemists, 10 years' sales experience, desires to represent progressive firm. Write 131/40, Office of this Paper.

**W**ELL-EDUCATED, fully qualified young Pharmacist, keen, and of engaging personality, seeks post in the Wholesale trade where Pharmaceutical knowledge combined with these qualifications can be used to advantage; excellent references. Robinson, 51 Bromfelde Road, Clapham, S.W.4.

**Y**OUNG educated Pharmacist seeks berth as Representative with firm marketing any class of high-grade Pharmaceutical products; keen interest and service assured; will commence at low nominal salary; own car; highest references; disengaged. 131/15, Office of this Paper.



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**£?—COMPLETE CHEMIST FITTINGS** at any price you wish to pay. We have erected in our showroom a Complete Chemist Shop with Metal Shop Front, Window Backs, Correct Window Lighting Signs and Modern Interior Fittings. Apply for Lists. **D. MATTHEWS & SON, LTD.**, "The Liverpool Shop Fitters," 14 and 16 Manchester Street, Liverpool. Est. 1848.

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**A HAND** or mechanically driven Mixer (small capacity) for Creams, Emulsions, etc., also apparatus for Filling and Closing Collapsible Tubes and a small experimental Laboratory Agitator or Mixer and Electric Furnace (or gas), 1,700 degrees C. Address inquiries to **Adelphi Research Laboratories**, 9 Duke Street, Adelphi, W.C.2.

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The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case the name and full postal address should be written on

**Post Office Wrappers, Stamped ONE PENNY, to ensure prompt delivery.**

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